Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG(7267864)	www.samsung.com/uk

BN68-02113G-01

SERIES 6

Plasma TV

user manual

imagine the possibilities

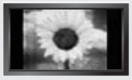
Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/register

Model ____________ Serial No. ____________

User Instructions

- **Screen Image retention**
  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- **Height**
  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.
- **Heat on the top of the PDP TV**
  The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.
- **The product is making a ‘cracking’ noise.**
  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.
- **Cell Defects**
  The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.
- **Avoid operating the TV at temperatures below 5°C(41°F)**
- **A still image displayed too long may cause permanent damage to the PDP Panel.**

  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- **Afterimage on the Screen.**
  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.
  To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.
- **Warranty**
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.
- **Installation**
  Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

Digital TV Notice

- Functionalities related to Digital TV(DVB) are only available in countries/areas where DVB-T (MPEG2 and MPEG4 AVC) digital terrestrial signals are broadcasted or where you have access to a compatible DVB-C(MPEG2 and MPEG4 AAC) cable-TV service. Please check with your local dealer the possibility to receive DVB-T or DVB-C signal.
- DVB-T is the DVB European consortium standard for the broadcast transmission of digital terrestrial television and DVB-C is that for the broadcast transmission of digital TV over cable.
  However, some differentiated features like EPG (Electric Program Guide), VOD (Video on Demand) and so on, are not included in this specification. So, they cannot be supported at this moment.
- Although this TV set meets the latest DVB-T and DVB-C standards[August,2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
- Some cable-TV providers may charge an additional fee for such a service and you may be required to agree to terms and conditions of their business.
- Some Digital TV functions might be unavailable in some countries or regions and DVB-C might not work correctly with all providers.
- For more information, please contact your local Samsung customer care centre.

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DOLBY DIGITAL PLUS	Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
DIVX	DivX Certified to play DivX video, including premium content.

Symbol

▲	Press
✎	Note
☝	One-Touch Button
↖	TOOLS

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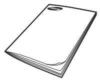
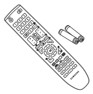
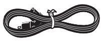
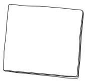
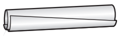
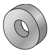
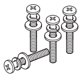
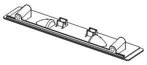
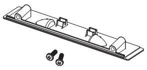
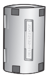
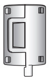
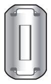
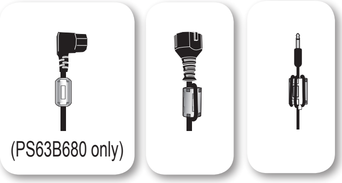
Getting Started

Checking Parts

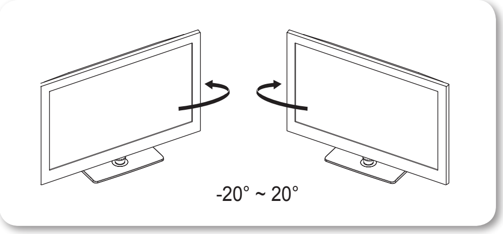
						
Owner's Instructions	Remote Control/ AAA Batteries (2ea)	Power Cord	Cloth-Clean	Holder-Wire Cable	Program CD	Holder-Ring (4ea)
						
Screw (4ea)	Cover-Bottom (PS50B650 only)	Cover-Bottom / Screws (2ea) (PS58B680 / PS63B680 only)	Ferrite Core for Power Cord	Ferrite Core for Headphone	Ferrite Core for Power Cord (PS63B680 only)	

- The ferrite core is used to shield the cable from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug.



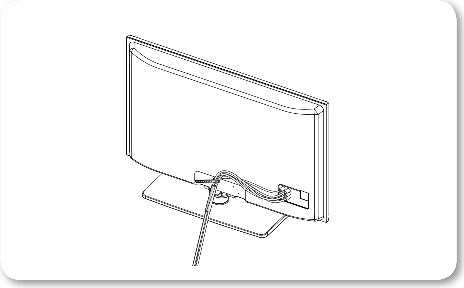
Using the Stand-Base

- Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- The PDP can rotate 20 degrees in right and left directions.



Assembling the Cables

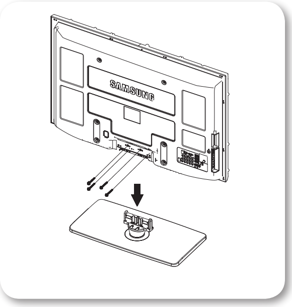
Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



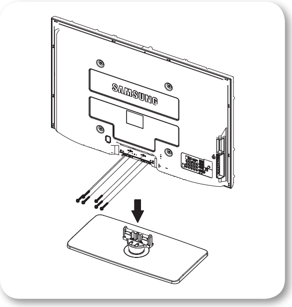
How to assemble the Stand-Base (depending on the model)

Using the screws for securing the stand base and the monitor, firmly attach the monitor to the stand base. (The exterior of the set may be different than the picture.)

- Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.
- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

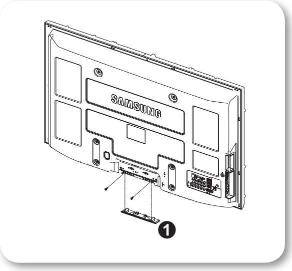


(PS50B650)



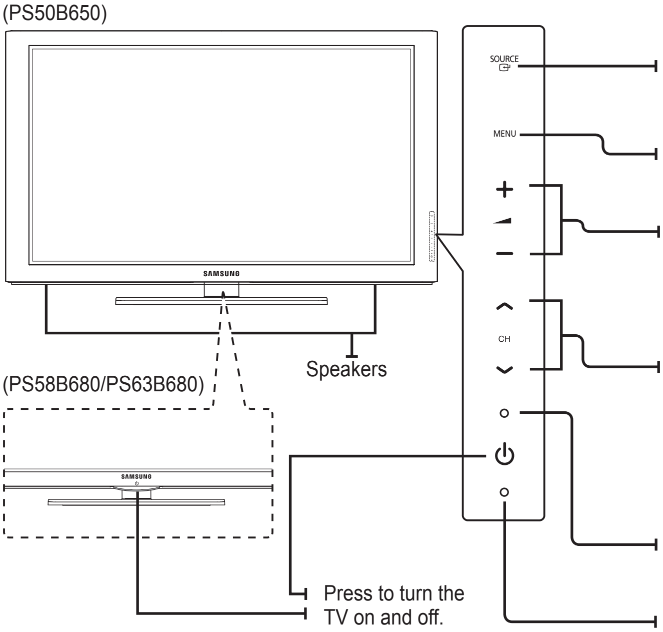
(PS58B680/PS63B680)

In case of installing your TV on the wall, close the cover ❶ on the stand-base connection part using two screws for hiding.



Viewing the Control Panel

- The product colour and shape may vary depending on the model.
- Touch each button to operate.



Toggles between all the available input sources In the on-screen menu, use this button as you would use the **ENTER**↵ button on the remote control.

Press to see an on-screen menu of your TV's features.

Press to increase or decrease the volume. In the on-screen menu, use the + ◢ – buttons as you would use the ◄ and ► buttons on the remote control.

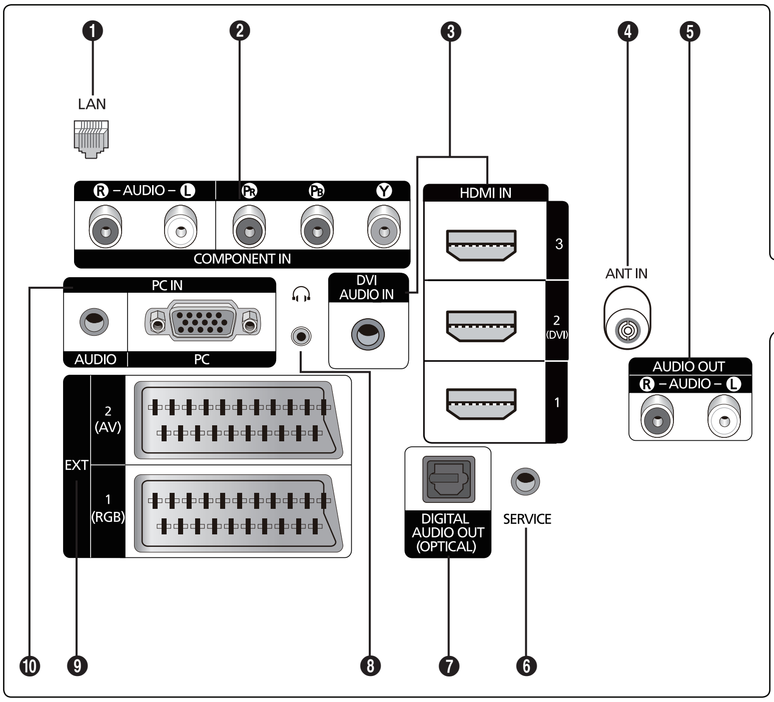
Press to change channels. In the on-screen menu, use the ∧ **CH** ∨ buttons as you would use the ▲ and ▼ buttons on the remote control. You can use ∧ **CH** ∨ button to turn on the TV without the remote control

Blinks and turns off when the power is on and lights up in stand-by mode

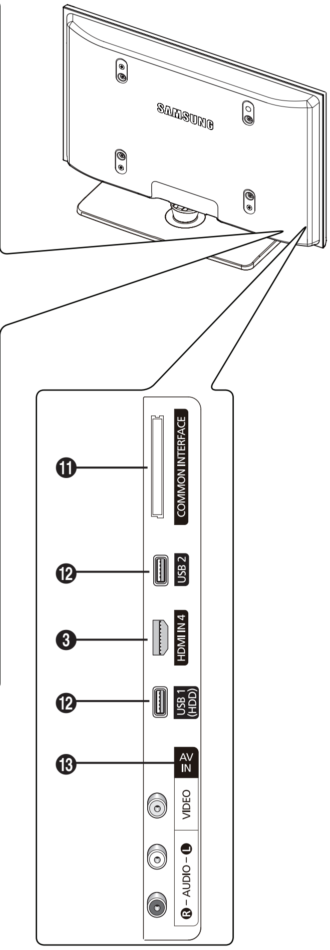
Press to turn the TV on and off.

Aim the remote control towards this spot on the TV.

Viewing the Connection Panel


❶
❷
❸
❹
❺
LAN
R – AUDIO – L
PR
PB
Y
COMPONENT IN
HDMI IN
3
2 (DVI)
1
ANT IN
PC IN
AUDIO
PC
DVI AUDIO IN
AUDIO OUT
R – AUDIO – L
EXT
2 (AV)
1 (RGB)
DIGITAL AUDIO OUT (OPTICAL)
SERVICE
❿
❾
❽
❼
❻

TV Rear Panel


SAMSUNG
⓫
COMMON INTERFACE
⓬
USB 2
❸
HDMI IN 4
⓬
USB 1 (HDD)
⓭
AV IN
VIDEO
R – AUDIO – L

TV Side Panel

- The product colour and shape may vary depending on the model.
- Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- When connecting an external device, match the colour of the connection terminal to the cable.

❶ **LAN**
Connect a LAN cable to this port to connect to the Network

❷ **COMPONENT IN**
Audio (AUDIO L/R) and video (Y / PB / PR) inputs for Component.

❸ **HDMI IN 1, 2(DVI), 3, 4**
No additional Audio connection is needed for an HDMI to HDMI connection.

- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 (DVI) jack.
- What is HDMI?
- **High Definition Multimedia interface** allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

DVI AUDIO IN
DVI audio outputs for external devices.

- Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

❹ **ANT IN**
75Ω Coaxial connector for Aerial/Cable Network.

❺ **AUDIO OUT(AUDIO R/L)**
Connect RCA audio signals from the TV to an external source, such as Audio equipment.

❻ **SERVICE**
Connector for service.

❼ **DIGITAL AUDIO OUT (OPTICAL)**
Connect to a Digital Audio Component.

❽ **HEADPHONE**
Connect a set of headphones if you wish to watch a television program without disturbing other people in the room.

- Prolonged use of headphones at a high volume may damage your hearing.

❾ **EXT 1, EXT 2**
Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

- In EXT mode, DTV Out only supports MPEG SD Video and Audio.
- In EXT Mode, Game mode is not available
- Input/Output Specification

Connector	Input			Output
	Video	Audio (L / R)	RGB	Video + Audio (L / R)
EXT 1	✔	✔	✔	Only TV or DTV output is available.
EXT 2	✔	✔		Output you can choose.

❿ **PC IN(PC) / (AUDIO)**
Connect to the video and audio output jack on your PC.

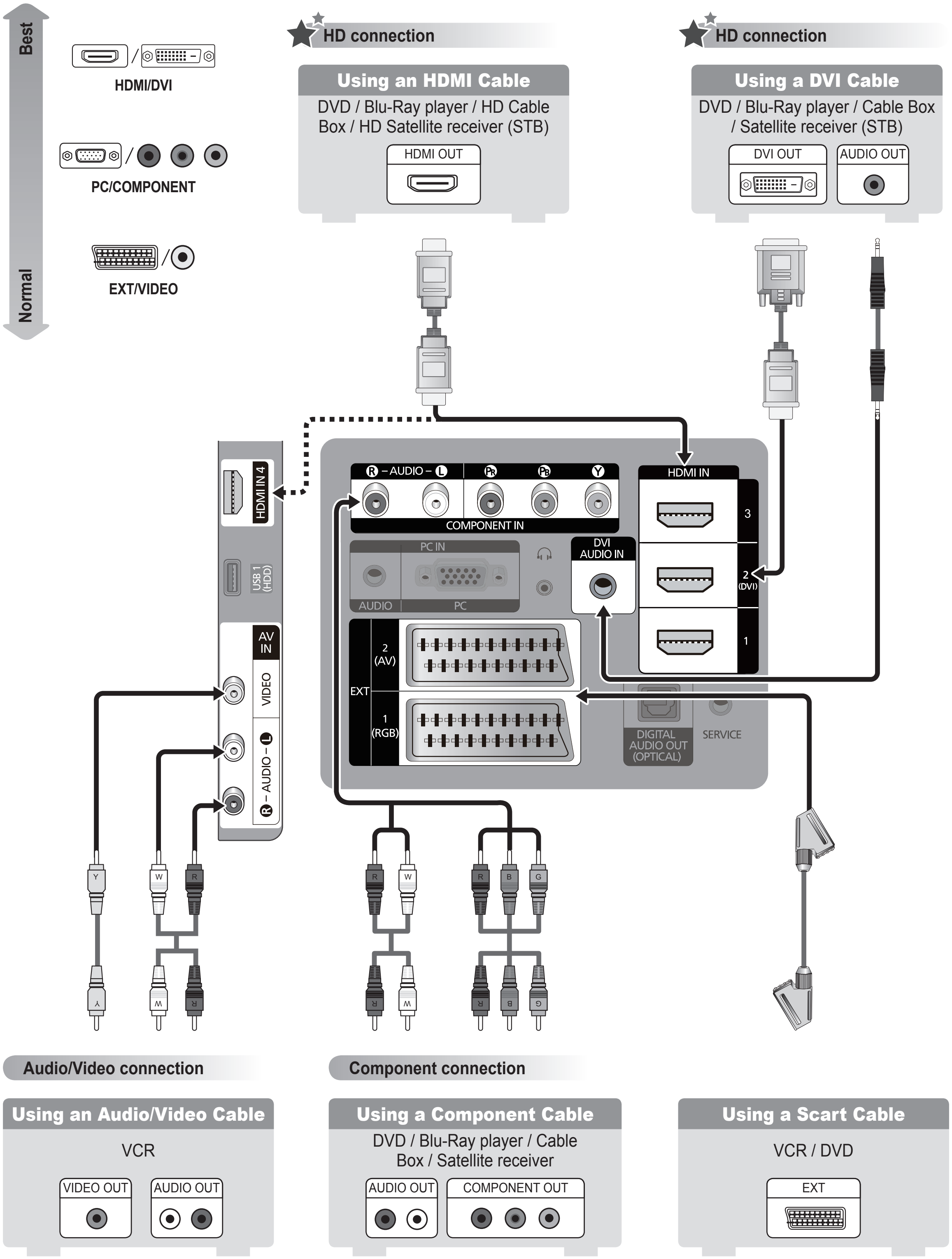
⓫ **COMMON INTERFACE Slot**
Insert CI (Common Interface) card into the slot.

- When not inserting **CI CARD** in some channels, **Scramble Signal** is displayed on the screen.
- The pairing information containing a telephone number, CI CARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the channel information configuration has finished, the message **Updating Completed** is displayed, indicating that the channel list is now updated.
- Insert the CI-Card in the direction marked on it.
- CAM is not supported in some countries and regions,check with your authorized dealer.

⓬ **USB 1(HDD), USB 2**
Connect a USB mass storage device to view photo files (JPEG) and play audio files (MP3) or movie files. You can connect to SAMSUNG's network wirelessly.USB 1(HDD) jack is also used as the HDD jack. HDD (Hard disk drive) is device which stores digitally encoded data.

⓭ **AV IN (VIDEO, AUDIO L/R)**
Video and audio inputs for external devices, such as a camcorder or VCR.

Connecting a AV device



Best
Normal
HDMI/DVI
PC/COMPONENT
EXT/VIDEO
HDMI OUT
DVI OUT
AUDIO OUT
HDMI IN 4
USB 1 (HDD)
AV IN
VIDEO
R – AUDIO – L
R – AUDIO – L
PR
PB
Y
COMPONENT IN
PC IN
AUDIO
PC
DVI AUDIO IN
HDMI IN
3
2 (DVI)
1
EXT
2 (AV)
1 (RGB)
DIGITAL AUDIO OUT (OPTICAL)
SERVICE
Y
W
R
R
W
R
B
G
VIDEO OUT
AUDIO OUT
AUDIO OUT
COMPONENT OUT
EXT

HD connection

Using an HDMI Cable

DVD / Blu-Ray player / HD Cable Box / HD Satellite receiver (STB)

HD connection

Using a DVI Cable

DVD / Blu-Ray player / Cable Box / Satellite receiver (STB)

Audio/Video connection

Using an Audio/Video Cable

VCR

Component connection

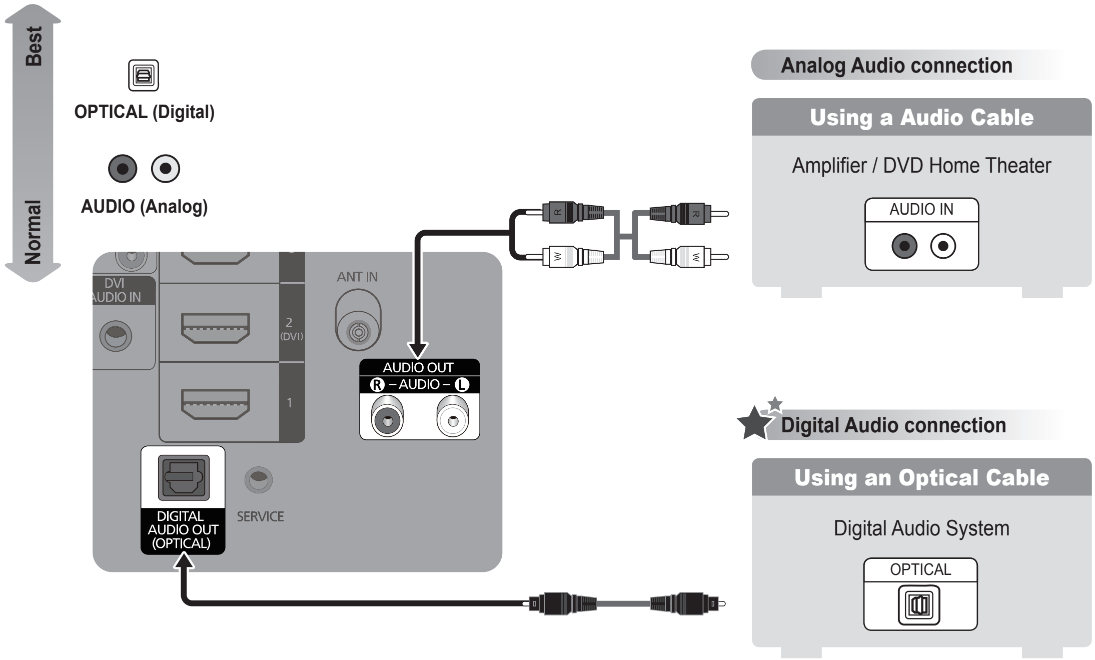
Using a Component Cable

DVD / Blu-Ray player / Cable Box / Satellite receiver

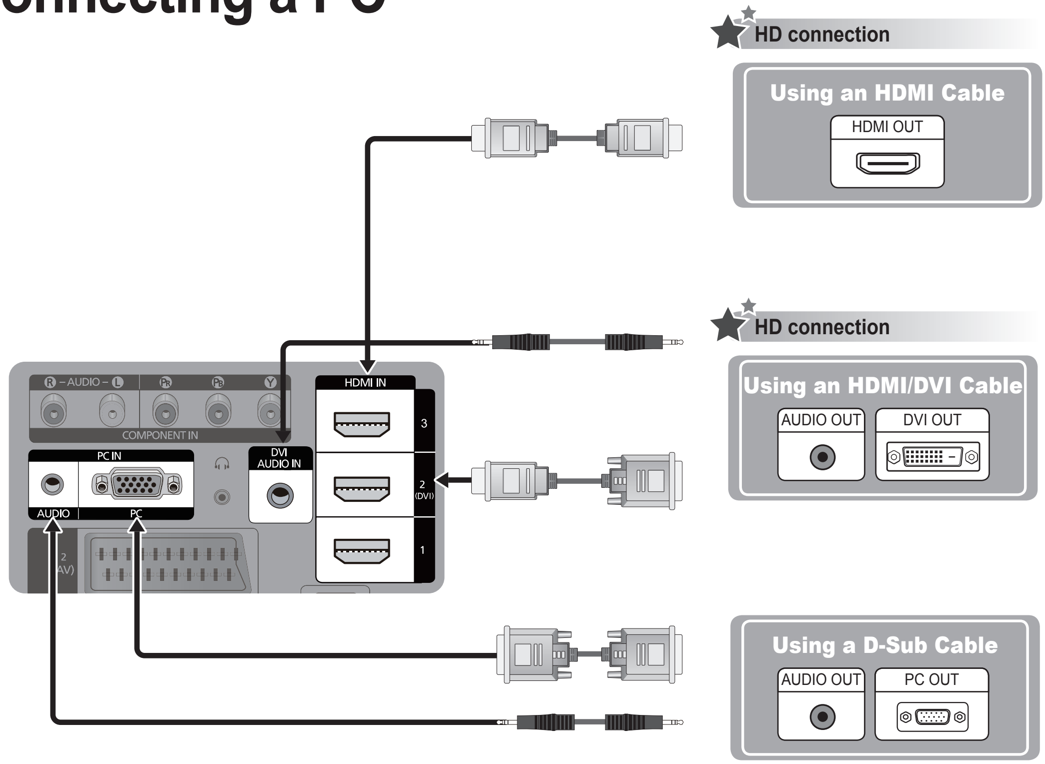
Using a Scart Cable

VCR / DVD

Connecting an audio device


Best
Normal
OPTICAL (Digital)
AUDIO (Analog)
DVI AUDIO IN
2 (DVI)
1
ANT IN
AUDIO OUT
R – AUDIO – L
DIGITAL AUDIO OUT (OPTICAL)
SERVICE
R
W
Analog Audio connection
Using a Audio Cable
Amplifier / DVD Home Theater
AUDIO IN
Digital Audio connection
Using an Optical Cable
Digital Audio System
OPTICAL

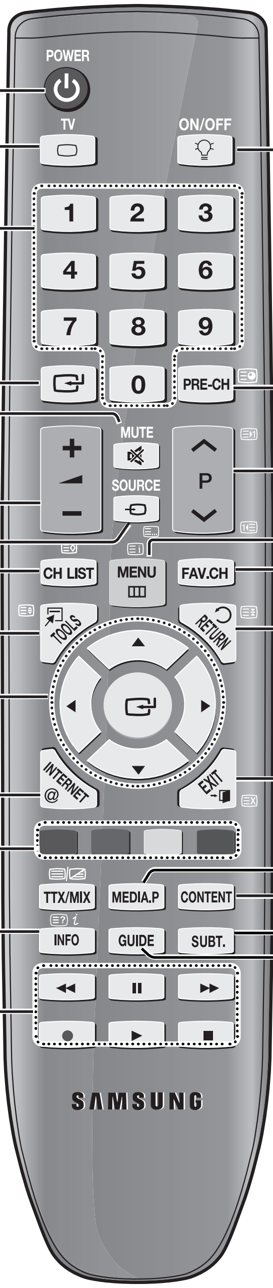
Connecting a PC


HD connection
Using an HDMI Cable
HDMI OUT
HD connection
Using an HDMI/DVI Cable
AUDIO OUT
DVI OUT
Using a D-Sub Cable
AUDIO OUT
PC OUT
R – AUDIO – L
PR
PB
Y
COMPONENT IN
HDMI IN
3
2 (DVI)
1
PC IN
AUDIO
PC
DVI AUDIO IN
2 (AV)

Remote Control

You can use the remote control up to a distance of about 23 feet from the TV.

- The performance of the remote control may be affected by bright light.



POWER button (turns the TV on and off)

Selects the TV mode directly. (p.86)

Number buttons for direct channel access

Use to select on-screen menu items

Temporary sound switch-off

+ Volume increase
– Volume decrease

Available source selection (p.40)

Used to display Channel Lists on the screen (p.19)

Use to quickly select frequently used functions. (p.15)

Control the cursor in the menu

This function enables you to view Internet@TV. (p.72)

Use these buttons in the Channel List and Media Play, etc.

Use to see information on the current broadcast (p.30)

Use these buttons in the Channel list, Media Play and Anynet+.

Press to backlight the buttons on the remote. This function is convenient for using at night or when the room is dark. (Using the remote control with the **ON/OFF**(☼) light button set to On will reduce the battery usage time.) (p.13)

Previous channel

^ Next channel
⌄ Previous channel

Displays the main on-screen menu

Displays the favourites channel list. (p.20)

Returns to the previous menu

Exit the on-screen menu

This function enables you to view Media Play. (p.44)

This function enables you to view Content Library. (p.69)

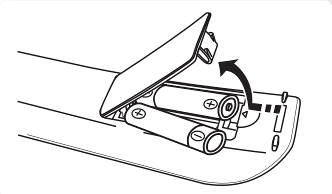
Digital subtitle display

Electronic Program Guide (EPG) display (p.18)

Teletext Functions (p.86)					
≡…	Teletext mode selection (LIST / FLOF)	≡?	Teletext reveal	1≡	Teletext previous page
≡◈	Teletext store	▭	Exit from the Teletext display	≡i	Teletext index
≡⇕	Teletext size	≡◑	Teletext sub page	≡⧗	Teletext hold
Colour buttons	Fastext topic selection	≡1	Teletext next page	1≡	Teletext previous page
≡x	Teletext cancel	≡/◪	Teletext on / mix		

Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.
   - If the remote control doesn't work, check the following:
     - Is the TV power on?
     - Are the plus and minus ends of the batteries reversed?
     - Are the batteries drained?
     - Is there a power outage or is the power cord unplugged?
     - Is there a special fluorescent light or neon sign nearby?



Using the Remote Control Backlight Buttons

Use this feature in dark surroundings and when you are unable to see the remote control buttons clearly.

1. Press the **ON**/**OFF**(💡) light button
   - When **ON**, the button backlight is turned on for a moment.
   - Pressing a remote control button when the remote control is on turns the button backlight on for a moment. If you touch or move the remote control and the motion is detected by the sensor of the remote control, the button backlight will be turned on for a moment.
   - Since there is a vibrating device inside the remote control, shaking the remote control will result in a sound generated by the device.
   - The button backlight will not be turned on when the remote control is turned off.

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
   - The standby indicator lights up on your set.
2. Press the **POWER**⏻ button on your set.
   - You also can press the **POWER**⏻ button or the **TV** button on the remote control to turn the TV on.
     The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down (∧ / ∨) button on the remote control or ∧ **CH** ∨ button on your set.
   - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**⏻ button again.

Placing Your Television in Standby Mode

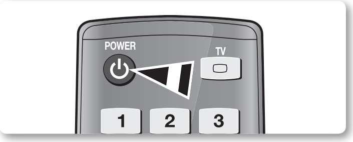
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

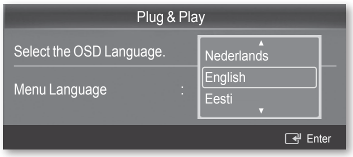
1. Press the **POWER**⏻ button on the remote control.
   - The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER**⏻, numeric buttons (0~9), **TV** button or channel up / down (∧ / ∨) button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Basic Operation

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.





Select the OSD Language.

Menu Language : Nederlands / English / Eesti

1 Press the **POWER** button on the remote control. **Select the OSD Language.** menu is automatically displayed. Select the appropriate language by pressing the ▲ or ▼ button.
Press the **ENTER** button to confirm your choice.

2 Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** button.
- We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
- **Store Demo** mode is only intended for use in retail environments.
- If the unit is accidentally set to **Store Demo** mode and you want to return to Home Use (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.

3 Press the **ENTER**button. Select the appropriate country by pressing the ▲ or ▼ button. Press the **ENTER** button to confirm your choice.

4 Press the ▲ or ▼ button to memorize the channels of the selected connection, then press the **ENTER** button.
- **Air**: Air antenna signal.
- **Cable**: Cable antenna signal.

5 Press the ▲ or ▼ button to select the channel source to memorize. Press the **ENTER** button to select Start.
- **Digital & Analogue**: Digital and Analogue channels.
- **Digital**: Digital channels.
- **Analogue**: Analoguechannels.oguechannels.e channels.
- For more detailed description of selecting Cable mode, refer to page 16.
- The channel search will start and end automatically.

6 The message **Set the Clock Mode** is displayed. Press the **ENTER** button. Press the ▲ or ▼ button to select **Auto**, then Press the **ENTER** button.
- If you select **Manual**, **Set current date and time** is displayed.
- If you have received a digital signal, the time will be set automatically.

7 The brief instruction on **How to get the best performance from your new HDTV** is displayed. Press the **ENTER** button.
- This menu is available **HD Connection Guide** in the **Support** menu.
- You can change previous or next page by pressing the ◄ / ► button.

8 The message **Enjoy your TV.** is displayed.
- If you want to view the TV immediately, select the **Watch TV**.
- If you want to view the **See Product Guide**, press the **ENTER** button.

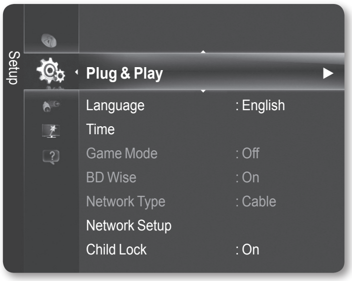
- If you accidentally select the wrong country for your TV, the characters on the screen may be wrongly displayed.
- The Screen Saver is activated if there is no remote control key input for longer than 1minute while Plug & Play is running.
- The Screen Saver is activated if there is no operating signal for longer than 15 minutes.

If you want to reset this feature...

1 Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.

2 Press the **ENTER** button again to select **Plug & Play**.

3 Enter your 4 digit PIN number.
- The default PIN number of a new TV set is ‘0-0-0-0’.
- If you want to change PIN number, refer to page 31.

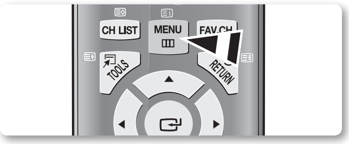


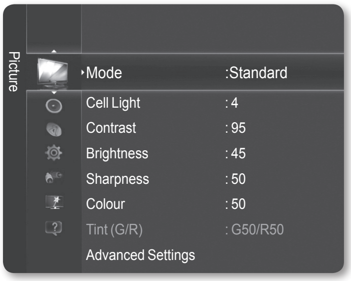
Language : English
Time
Game Mode : Off
BD Wise : On
Network Type : Cable
Network Setup
Child Lock : On

- The **Plug & Play** feature is only available in the **TV** mode.

Using the Menus

Viewing the Menus





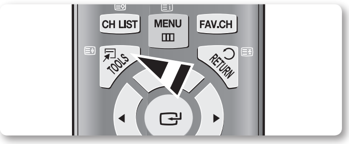
Mode :Standard
Cell Light : 4
Contrast : 95
Brightness : 45
Sharpness : 50
Colour : 50
Tint (G/R) : G50/R50
Advanced Settings

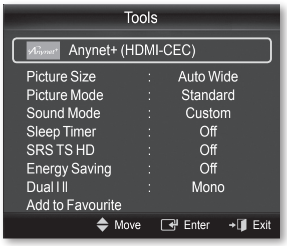
1 With the power on, press the **MENU** button. The main menu appears on the screen. The menu’s left side has icons: **Picture**, **Sound**, **Channel**, **Setup**, **Input**, **Application**, **Support**.

2 Press the ▲ or ▼ button to select one of the icons. Then press the **ENTER**↵ button to access the icon’s sub-menu.

3 Press the **EXIT** button to exit.
■ The on-screen menus disappear from the screen after about one minute.

Using the TOOLS Button




Tools
Anynet+ (HDMI-CEC)
Picture Size : Auto Wide
Picture Mode : Standard
Sound Mode : Custom
Sleep Timer : Off
SRS TS HD : Off
Energy Saving : Off
Dual I II : Mono
Add to Favourite

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **Tools** menu changes depending on which external input mode you are viewing.

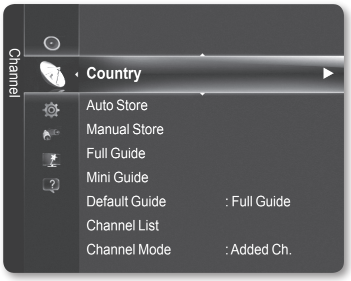
1 Press the **TOOLS** button. The **Tools** menu will appear.

2 Press the ▲ or ▼ button to select a menu, then press the **ENTER**↵ button.

3 Press the ▲ / ▼ / ◄ / ► / **ENTER**↵ buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

Channel Menu

Channel	
Option	**Description**
Country	■ **Digital Channel** You can change the country for digital channels. ■ **Analogue Channel** You can change the country for analogue channels. • The PIN number input screen appears. Enter your 4 digit PIN number.
Auto Store	Scans for all channels with active broadcast stations (and availability depends on your country) and stores them in the TV's memory. You can memorize the channels of the selected connection. ■ **Air / Cable** Antenna source to memorize **When selecting Cable,** • **Search Mode → Quick** – **Network ID**: Displays the network identification code. – **Frequency**: Displays the frequency for the channel. – **Modulation**: Displays available modulation values. – **Symbol Rate**: Displays available symbol rates. • **Search Mode → Full / Network** – **Start Frequency**: Displays the frequency start values. – **End Frequency**: Displays the frequency stop values. – **Modulation**: Displays available modulation values. – **Symbol Rate**: Displays available symbol rates. You can memorize the Channel source • **Digital & Analogue**: Digital and Analogue channels. • **Digital**: Digital channels. • **Analogue**: Analogue channels.



Default Guide : Full Guide
Channel Mode : Added Ch.

- If you want to stop **Auto Store**, press the **ENTER↵** button. The **Stop Auto Store?** message will be displayed. Select **Yes** by pressing the ◀ or ▶ button, then press the **ENTER↵** button.

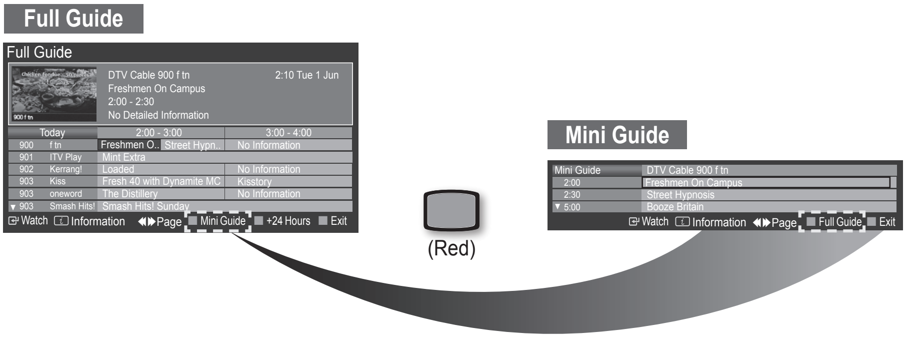
Channel	
Option	**Description**
Manual Store	Scans for a channel manually and stores it in the TV's memory. ■ **Digital Channel (Digital)** Manual store for digital channels. • **Channel**: Set the Channel number using the ▲, ▼ or number (**0~9**) buttons. • **Frequency**: Set the frequency using the number (**0~9**) buttons. • **Bandwidth**: Set the bandwidth using the ▲, ▼buttons. When it has finished, channels are updated in the channel list. ■ **Analogue Channel** Manual store for analogue channel. • **Programme** (Programme number to be assigned to a channel) Sets the programme number using the ▲, ▼ or number (**0~9**) buttons. • **Colour System** → **Auto** / **PAL** / **SECAM** / **NTSC4.43** Sets the colour system value using the ▲ or ▼ button. • **Sound System** → **BG** / **DK** / **I** / **L** Sets the sound system value using the ▲ or ▼ button. • **Channel** (When you know the number of the channel to be stored) Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number. – If there is abnormal sound or no sound, reselect the sound standard required. • **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen. • **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.

- **Digital Channel** is only available in DTV mode.

- **Analogue Channel** is only available in analogue TV mode.
- **Channel mode**
  - **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
  - **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Channel	
Option	**Description**
Full Guide / Mini Guide / Default Guide	The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available. ■ **Full Guide** Displays the programme information as time ordered One hour segments. One hours of programme information is displayed which may be scrolled forwards or backwards in time. ■ **Mini Guide** The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order. ■ **Default Guide → Full Guide / Mini Guide** You can decide whether to display either the **Full Guide** or the **Mini Guide** when the **GUIDE** button on the remote control is pressed.

- You can also display the guide menu simply by pressing the **GUIDE** button.



Full Guide

DTV Cable 900 f tn 2:10 Tue 1 Jun
Freshmen On Campus
2:00 - 2:30
No Detailed Information

Today		2:00 - 3:00	3:00 - 4:00
900	f tn	Freshmen O.. Street Hypn..	No Information
901	ITV Play	Mint Extra	
902	Kerrang!	Loaded	No Information
903	Kiss	Fresh 40 with Dynamite MC	Kisstory
903	oneword	The Distillery	No Information
▼ 903	Smash Hits!	Smash Hits! Sunday	

Mini Guide	DTV Cable 900 f tn
2:00	Freshmen On Campus
2:30	Street Hypnosis
▼ 5:00	Booze Britain

▲ / ▼ / ◄ / ►, ENTER	Select a programme by pressing the ▲/▼/◄/►/**ENTER** button.
RED	Toggle between the **Mini Guide** or **Full Guide**.
GREEN	**Full Guide**: Scroll backwards quickly (-24 hours). **Mini Guide**: Display previous page quickly
YELLOW	**Full Guide**: Scroll forwards quickly (+24 hours). **Mini Guide**: Display next page quickly.
BLUE	Exit the guide.
INFO	**INFO** button for the detailed information.

Channel

Option	Description

Channel List

Using this menu, you can Add / Delete or set Favourite channels and use the programme guide for digital broadcasts.

- **All Channels**

Shows all currently available channels.

- **Added Channels**

Shows all added channels.

- **Favourites**

Shows all favourite channels.

- **Programmed**

Shows all current reserved programmes.

Select a channel in the **All Channels**, **Added Channels**, **Favourites**, or **Programmed** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER**⏎ button.Then you can watch the selected channel.

- **Using the Colour buttons with the Channel List**
  - **Red** (Channel Type): Toggle between your **TV**, **Radio**, **Data/Other** and **All**.
  - **Green** (Zoom): Enlarges or shrinks a channel number.
  - **Yellow** (Select): Selects multiple channel lists.
- **Channel Status Display Icons**

A	An Analogue channel.
♥	A channel set as a Favourite.
🔒	A locked channel.
✓	A channel selected by pressing the
📺	A programme currently being broadcast.
🕒	A reserved programme

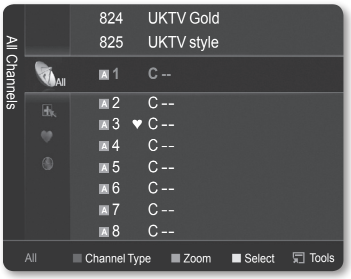
Channel List Tools Menu (in All Channels / Added Channels / Favourites)

- Press the **TOOLS** button to use the Tools menu.
- Tools menu items may differ depending on the channel status.

- **Add / Delete**

You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.



- **TOOLS** (Tools): Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Timer Viewing**, **Edit Channel Name**, **Edit Channel Number**, **Sort**, **Lock** (or **Unlock**), **Select All** (or **Deselect All**), or **Auto Store** menu.
(The Options menus may differ depending on the situation.)

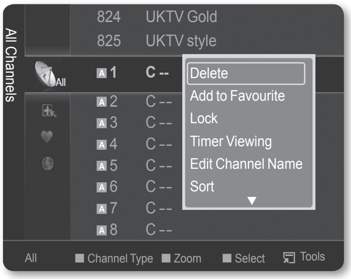
- Press the **CH LIST** button on the remote control to bring up the channel lists.

- A gray-coloured channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.

Channel	
Option	**Description**
Channel List	■ **Add to Favourite / Delete from Favourite** You can set channels you watch frequently as favourites. • The “♥” symbol will be displayed and the channel will be set as a favourite. • All favourite channels will be shown on **Favourite** menu. ■ **Lock / Unlock** You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **On**. • The PIN number input screen appears. Enter your 4 digit PIN number. • The default PIN number of a new TV set is ‘0-0-0-0’. You can change the PIN, by selecting **Change PIN** from the menu. • The “🔒” symbol will be displayed and the channel will be locked. ■ **Timer Viewing** If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme set the current time first. • Only memorized channels can be reserved. • You can set the channel, month, day, year, hour and minute directly by pressing the number buttons on the remote control. • Reserving a programme will be shown on **Programmed** menu. • **Digital Programme Guide and Viewing Reservation** When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above. ■ **Edit Channel Name** (**only analogue channel**) Channels can labeled so that their call letters appear whenever the channel is selected. • The names of digital broadcasting channels are automatically assigned and cannot be labeled. ■ **Edit Channel Number** (**only digital channel**) You can also edit the channel number by pressing the number buttons on the remote control. ■ **Sort** (**only analogue channel**) This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

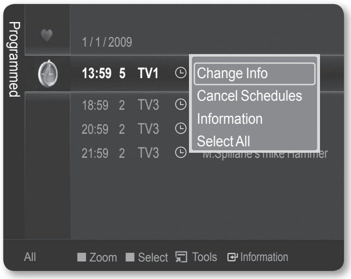
■ Press the **TOOLS** button to display **Tools** menu.
You can also add the favourite channel by selecting **Tools** → →**Add to Favourite** (or **Delete from Favourite**).

■ To select the Favourite channels you have set up, press the **FAV.CH** button on the remote control.



Channel	
Option	**Description**
Channel List	■ **Select All** / **Deselect All** You can deselect or select all channels in the channel list. • You can perform the Add / Delete, Add to Favourites / Delete from Favourites, or Lock / Unlock function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time. • The ✓ mark appears to the left of the selected channels. • You can only select **Deselect All** when there is a selected channel. ■ **Auto Store** • For further details on setting up options, refer to page 16. **Channel List Tools Menu (in Programmed)** You can view, modify or delete a reservation. • Press the **TOOLS** button to use the tools menu. ■ **Change Info**: Select to change a viewing reservation. ■ **Cancel Schedules**: Select to cancel a viewing reservation. ■ **Information**: Select to view a viewing reservation. (You can also change the reservation information.) ■ **Select All / Deselect All**: Select or deselect all reserved programmes
Channel Mode	When the press the **P** ⋀/⋁ button, Channels will be switched within the selected channel list. ■ **Added Ch.** Channels will be switched within the memorized channel list. ■ **Favourite Ch.** Channels will be switched within the favourite channel list.
Fine Tune	If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually. • Fine tuned channels that have been saved are marked with an asterisk * on the right-hand side of the channel number in the channel banner. • If you do not store the fine-tuned channel in memory, adjustments are not saved. • To reset the fine-tuning, select **Reset** by pressing the ▼ button and then press the **ENTER**⏎ button.

- ■ If a channel is locked using the **Child Lock** function, the PIN input window appears.

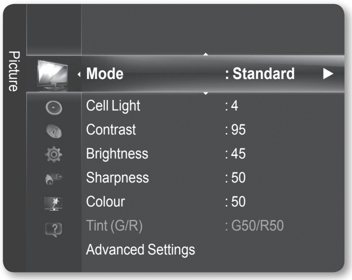


- ■ Only Analogue TV channels can be fine tuned.

Picture Menu

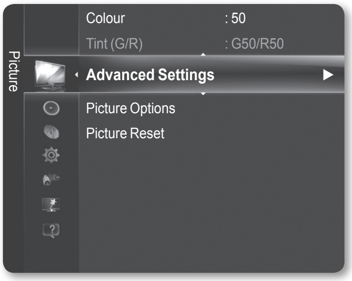
Picture	
Option	**Description**
Mode	You can select the type of picture which best corresponds to your viewing requirements. ■ **Dynamic / Standard / Eco / Movie**
Cell Light / Contrast / Brightness / Sharpness / Colour / Tint (G/R)	Your television has several setting options that allow you to control the picture quality. ■ **Cell Light**: Adjusts the pixel brightness. ■ **Contrast**: Adjusts the contrast level. ■ **Brightness**: Adjusts the brightness level. ■ **Sharpness**: Adjusts the sharpness. ■ **Colour**: Adjusts the colour saturation of the picture using the bar on the screen. ■ **Tint (G/R)**: Adjusts the colour tint of the picture. • When you make changes to **Cell Light**, **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly. • In Analogue TV, Ext., AV modes of the PAL system, you cannot use the Tint Function. • In **PC** mode, you can only make changes to **Cell Light**, **Contrast** and **Brightness**. • Each adjusted setting will be stored separately according to its input mode. • The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

- ■ Press the **TOOLS** button to display **Tools** menu.
  You can also set the picture mode by selecting **Tools** → **Picture Mode**.



Picture
Mode : **Standard** ▶
Cell Light : 4
Contrast : 95
Brightness : 45
Sharpness : 50
Colour : 50
Tint (G/R) : G50/R50
Advanced Settings

Picture	
Option	**Description**
Advanced Settings	You can adjust the advanced settings for your screen including the colour and contrast. ■ **Black Tone** → **Off** / **Dark** / **Darker** / **Darkest** You can enhance the picture depth by adjusting the black colour density. ■ **Dynamic Contrast** → **Off** / **Low** / **Medium** / **High** You can adjust the screen contrast so that the optimal contrast is provided. ■ **Gamma** You can adjust the primary colour (Red, Green, Blue) Intensity. ■ **Colour Space** Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite Colour Space to experience the most natural colour. • **Auto**: Automatically sets the colour range depending on the input video source. • **Native**: Sets a colour range wider than that of the input video source. • **Custom**: Adjusts the colour range to suit your preference. **Customizing the Colour Space** – Adjusts the Colour range to suit your preference. Colour is available when **Colour Space** is set to **Custom**. – **Colour** → **Red** / **Green** / **Blue** / **Yellow** / **Cyan** / **Magenta** – **Red** / **Green** / **Blue**: In Colour, you can adjust the RGB values for the selected colour. – **Reset**: Resets the colour space to the default values. ■ **White Balance** You can adjust the colour temperature for more natural picture colours. • **R-Offset** / **G-Offset** / **B-Offset** / **R-Gain** / **G-Gain** / **B-Gain**: Changing the adjustment value will refresh the adjusted screen. • **Reset**: Resets the default white balance. ■ **Flesh Tone** You can emphasize the pink flesh tone in the picture. • Changing the adjustment value will refresh the adjusted screen. ■ **Edge Enhancement** → **Off** / **On** You can emphasize object boundaries in the picture. ■ **xvYCC** Setting the xvYCC mode to on increases detail and colour space when watching movies from an external device (i.e. DVD player).



Picture

Colour : 50

Tint (G/R) : G50/R50

Advanced Settings ▶

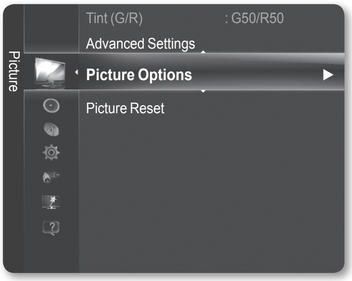
Picture Options

Picture Reset

- ■ **Advanced Settings** is available in **Standard** or **Movie** mode.
- ■ In **PC** mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Advanced Settings** items.

- ■ **xvYCC** is available when the picture mode is set to **Movie**, and the external input is set to **HDMI** or **Component** mode.

Picture	
Option	**Description**
Picture Options	■ **Colour Tone → Cool** / **Normal** / **Warm1** / **Warm2** / **Warm3** You can select the most comfortable colour tone to your eyes. • The adjusted values are stored according to the selected Picture mode. • **Warm1**, **Warm2** or **Warm3** is only activated when the picture mode is **Movie**. ■ **Size** You can select the picture size which best corresponds to your viewing requirements. • **Auto Wide**: Sets the picture in Auto Wide format. • **16:9**: Sets the picture to the 16:9 aspect ratio. • **Wide Zoom**: Select this menu to view 4:3 aspect ratio pictures over a 16:9 aspect ratio TV by stretching the 4:3 picture vertically. • **Zoom**: Stretches the 16:9 aspect ratio picture vertically. • **4:3**: Sets the picture to the 4:3 aspect ratio. • **Screen Fit**: Displays the full native HD signal that cannot be viewed using a normal TV. – **Wide Zoom**: Press the ► button to select **Position**, then press the **ENTER**↵ button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER**↵ button. – **Zoom**: Press the ► button to select **Position**, then press the **ENTER**↵ button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER**↵ button. Press the ► button to select **Size**, then press the **ENTER**↵ button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER**↵ button. – After selecting **Screen Fit** in **HDMI** (1080i / 1080p) or **Component** (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture. – **Reset**: Press the ◄ or ► button to select Reset, then press the **ENTER**↵ button. You can initialize the setting. – If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function. ■ **Screen Mode → 16:9 / Wide Zoom / Zoom / 4:3** When setting the picture size to **Auto Wide** in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it. ■ **Digital NR → Off** / **Low** / **Medium** / **High** / **Auto** If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen. • When the signal is weak, select one of the other options until the best picture is displayed. ■ **HDMI Black Level → Normal** / **Low** You can directly select the black level on the screen to adjust the screen depth. • This function is active only when the external input connects to HDMI (RGB signals).



Tint (G/R) : G50/R50

- In **PC** mode, you can only make changes to the **Colour Tone**, **Size** and **Screen Burn Protection** from among the items in **Picture Options**.

- Depending on the input source, the picture size options may vary.
- The items available may differ depending on the selected mode.
- In **PC** Mode, only **16:9** and **4:3** mode can be adjusted.
- When Double (◫ , ⊟) mode has been set in PIP, the Picture Size cannot be set.
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- Temporary image retention may occur when viewing a static image on the set for more than two hours.

- You can select these options simply by pressing the **P.SIZE** button on the remote control.

- This function is available in **Auto Wide** mode.
- This function is not available in **PC**, **Component** or **HDMI** mode.

Picture	
Option	**Description**
Picture Options	■ **1080 Full HD Motion Demo → Off / On** Samsung's new generation PDP panels deliver stunning Full HD motion clarity when viewing fast action sports, movies, and games. • This function is not available in PC, Game or Media Play mode. ■ **Film Mode** You can optimize the picture mode for watching movies. • **Off**: Turn the Film Mode function off. • **Auto1**: Improves the picture quality for fast motion scenes. • **Auto2**: Allows a smoother text motion on fast motion scenes. • **Cinema Smooth**: Offers the ultimate cinema experience. – Film mode is supported in TV, Video, Component(480i / 1080i) and HDMI(1080i). ■ **Real 100Hz Demo → Off / On** You can get a clear distinction between Real 100Hz and 50Hz, especially when watching fast moving scenes. Therefore, when seeing slow moving scenes, you will not be able to distinguish between Real 100Hz and 50Hz. Demo 100Hz works only with 50Hz signal. Real 100Hz demo mode is provided for shop demonstration with special pictures. ■ **Blue Only Mode → Off / On** This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Colour and Tint of video equipment such as DVD players, Home Theaters, etc. • **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**. ■ **Screen Burn Protection** To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical) and side to side (Horizontal). The Time setting allows you to program the time between movement of the picture in minutes. • **Pixel Shift**: Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after image on the screen.

- The Pixel Shift value may differ depending on the monitor size (inches) and mode.
- This function is not available in the **Screen Fit** mode

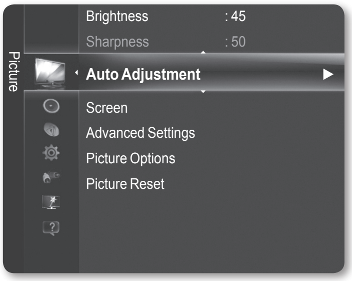
Optimum condition for pixel shift

	Item	TV/Ext./AV/Component/HDMI/PC
Horizontal	0~2	2
Vertical	0~4	4
Time (minute)	1~4 min	2 min

	• **Scrolling**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time. • **Side Grey**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides. – **Light**: When you set the screen ratio to 4:3, it brightens the left and right sides. – **Dark**: When you set the screen ratio to 4:3, it darkens the left and right sides.

Picture	
Option	**Description**
Picture Reset	■ **Reset Picture Mode** / **Cancel** Resets all picture settings to the default values. • Select a picture mode to be reset. The reset is performed for each picture mode.

Picture (In the PC mode)	
Option	**Description**
Auto Adjustment	Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.
Screen	The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen. ■ **Coarse** Adjusts the frequency when vertical noise appears on the screen. ■ **Fine** Adjusts the screen to be clearer. ■ **PC Position** Adjust the PC's screen positioning if it does not fit the TV screen. Press the▲ or ▼ Press the button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position. ■ **Image Reset** You can replace all image settings with the factory default values.



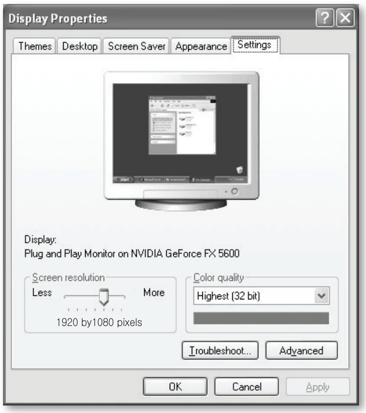
- Press the **TOOLS** button to display **Tools** menu.
  You can also set the adjustment by selecting **Tools** → **Auto Adjustment**.

- Preset: Press the **SOURCE** button to select **PC** mode.
- This function does not work in DVI-HDMI mode.

PC Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



Display:
Plug and Play Monitor on NVIDIA GeForce FX 5600

Screen resolution: Less More
1920 by1080 pixels

Color quality: Highest (32 bit)

1 First, click on 'Control Panel' on the Windows start menu.

2 When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.

3 When the control panel window appears, click on 'Display' and a display dialog-box will appear.

4 Navigate to the 'Settings' tab on the display dialog-box.The correct size setting (resolution)
Optimum: 1920 X 1080 pixels

If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.
The resolutions in the table are recommended.

D-Sub and HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	720 x 400	31.469	70.087	28.322	- / +
MAC	640 x 480	35.000	66.667	30.240	- / -
	832 x 624	49.726	74.551	57.284	- / -
	1152 x 870	68.681	75.062	100.000	- / +
VESA CVT	720 x 576	35.910	59.950	32.750	- / +
	1152 x 864	53.783	59.959	81.750	- / +
	1280 x 720	44.772	59.855	74.500	- / +
		56.456	74.777	95.750	- / +
	1280 x 960	75.231	74.857	130.000	- / +
VESA DMT	640 x 480	31.469	59.940	25.175	- / -
		37.861	72.809	31.500	- / -
		37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
		48.077	72.188	50.000	+ / +
		46.875	75.000	49.500	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
		56.476	70.069	75.000	- / -
		60.023	75.029	78.750	+ / +
	1152 x 864	67.500	75.000	108.000	+ / +
	1280 x 800	49.702	59.810	83.500	- / +
		62.795	74.934	106.500	- / +
	1280 x 960	60.000	60.000	108.000	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
		79.976	75.025	135.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1440 x 900	55.935	59.887	106.500	- / +
		70.635	74.984	136.750	- / +
	1680 x 1050	65.290	59.954	146.250	- / +
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+ / +
VESA GTF	1280 x 720	52.500	70.000	89.040	- / +
	1280 x 1024	74.620	70.000	128.943	- / -

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 2 (DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.
- Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080).

Sound Menu

Sound	
Option	**Description**
Mode	You can select the type of special sound effect to be used when watching a given broadcast. ■ **Standard** / **Music** / **Movie** / **Clear Voice** / **Custom**
Equalizer	The sound settings can be adjusted to suit your personal preferences. ■ **Mode**: You can select a sound mode to suit your personal preferences. ■ **Balance**: Controls the balance between the right and left speakers. ■ **100Hz** / **300Hz** / **1KHz** / **3KHz** / **10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies ■ **Reset**: Resets the equalizer settings to the default values.
SRS TruSurround HD	**SRS TruSurround HD** is the combined technology of TruSurround and FOCUS, TruBass. **SRS TruSurround HD** is down mixing technology that makes the Surround Sound effect of virtual 5.1 channel via two speakers. This function provide not only rich deep bass at a low-pitched sound but also improve the resolution at a high-pitched sound. • If the sound is abnormal while TV is playing music, please adjust the equalizer and **SRS TruSurround HD** (**Off**/**On**).
Audio Language	You can change the default value for audio languages. Displays the language information for the incoming stream. ■ You can only select the language among the actual languages being broadcast.
Audio Format	When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function. • You can only select the language among the actual languages being broadcast.
Audio Description	This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume. ■ **Audio Description**→ **Off** / **On** Turn the audio description function on or off. ■ **Volume** You can adjust the audio description volume. • **Volume** is active when **Audio Description** is set to **On**.
Auto Volume	Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

- ■ Press the **TOOLS** button to display **Tools** menu.
  You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

- ■ Press the **TOOLS** button to display **Tools** menu.
  You can also set the **SRS TruSurround HD** by selecting **Tools** → **SRS TS HD**.

- ■ **Audio Language**, **Audio Format** , and **Audio Description** is only available in DTV mode.

Sound	
Option	**Description**
Speaker Select	■ **External Speaker** / **TV Speaker** If you want to hear the sound through separate speakers, cancel the internal amplifier. • The –◢+, 🔇**MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**. • If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (Optical, L / R Out) to Sound System
	TV / Ext. / AV / Component / PC / HDMI	TV / Ext. / AV / Component / PC / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

Sound Select	When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture. ■ **Main**: Listen to the sound of the main picture. ■ **Sub**: Listen to the sound of the sub picture. – You can select this option when **PIP** is set to **On**.
Sound Reset	■ **Reset All** / **Reset Sound Mode** / **Cancel** You can restore the Sound settings to the factory defaults.

- Press the **TOOLS** button to to display **Tools** menu. You can also set the sound of the sub picture by selecting **Tools** → **PIP** → **Sound Select**.

Selecting the Sound Mode

When you set to **Dual I II**, the current sound mode is displayed on the screen.

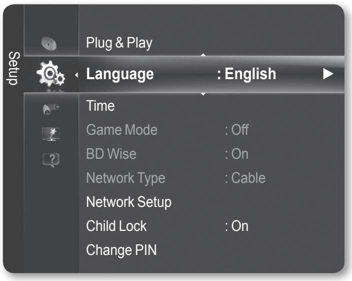
	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM** ↔ **Mono** (Normal)
	NICAM-Stereo	**NICAM Stereo** ↔ **zMono** (Normal)
	NICAM Dual-I/II	**NICAM Dual-1** → **NICAM Dual-2** → **Mono** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Bilingual or DUAL-I/II	**Dual I** ↔ **Dual II**
	Stereo	**Stereo** ↔ **Mono** (Forced mono)

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in **TV** mode.

- Press the **TOOLS** button to to display **Tools** menu. You can also select the sound mode by selecting **Tools** → **Dual I II**.

Setup Menu

Setup	
Option	**Description**
Language	You can set the menu language.
Time	■ **Clock** Setting the clock is necessary in order to use the various timer features of the TV. • **Clock Mode** You can set up the current time manually or automatically. – **Auto**: Set the current time automatically using the time from the digital broadcast. – **Manual**: Set the current time to a manually specified time. • **Clock Set** You can set the current time manually. – Set up this item when you have set **Clock Mode** to **Manual**. – You can set the **Day**, **Month**, **Year**, **Hour**, **Minute** directly by pressing the number buttons on the remote control. ■ **Sleep Timer** The sleep timer automatically shuts off the TV after a preset time. (30, 60, 90, 120, 150 and 180 minutes) • The TV automatically switches to standby mode when the timer reaches 0. • To cancel the **Sleep Timer** function, select **Off**. ■ **Timer 1** / **Timer 2** / **Timer 3** You can set the TV to turn on or off at a desired time. • **On Time**: Set the hour, minute, am/pm, and Activate/Inactivate. (To activate timer with the setting you've chosen, set to **Activate**.) • **Off Time**: Set the hour, minute, am/pm, and Activate/Inactivate. (To activate timer with the setting you've chosen, set to **Activate**.) • **Volume**: Set the required volume level. • **Source** : Selects TV, or USB device. – When you select the **TV**, you can set the **Antenna** and **Channel**. **Antenna**: Selects Air or Cable. **Channel**: Select the desired channel. – When you select the **USB**, you can set the **Contents**. **Contents**: Selects the desired contents on the USB. **Repeat**: Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun**, or **Manual**. – When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER**⏎ button over the desired day and the ✓ mark will appear. – The whole folder on the USB are supports English 64 character. – You must set the clock first. – You can set the hour, minute and programme by pressing the number buttons on the remote control.



Plug & Play
Language : English ►
Time
Game Mode : Off
BD Wise : On
Network Type : Cable
Network Setup
Child Lock : On
Change PIN

- ■ If you disconnect the power cord, you have to set the clock again.

- ■ The current time will appear every time you press the **INFO** button.

- ■ Press the **TOOLS** button to display **Tools** menu.
  You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

- ■ **Auto Power Off**
  When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

Setup Menu

Setup	
Option	**Description**
Game Mode	When connecting to a game console such as PlayStationTM or XboxTM, you can enjoy a more realistic gaming experience by selecting the game menu. **When the Game Mode is On** ■ **Picture Mode** is automatically changed to **Standard** and users cannot change the mode. ■ **Sound Mode** is automatically changed to **Custom** and users cannot change the mode. Adjust the sound using the equalizer. ■ The **Reset** in the **Sound** menu is activated. **Reset** function initializes the **Equalizer** settings to the factory default setting. • **Game Mode** is not available in regular TV mode or **Game Mode** set to **Off**. • If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. • If you display the TV menu in **Game mode**, the screen shakes slightly. • The mark (🎮) appears on the screen which means that **Game Mode** is on with the selected source. • This function supports only game function. • **Game mode** is not available in **PC** mode.
Child Lock	This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu. ■ You can lock some channels in Channel List.
Change PIN	You can change your personal ID number that is required to set up the TV. ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is '0-0-0-0'.
Parental Lock	This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by a 4-digit PIN (Personal Identification Number) code that is defined by the user. ■ The Parental Rating item differs depending on the country. ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu. ■ When the parental ratings are set, the 🔒 symbol is displayed. ■ **Allow All**: Press to unlock all TV ratings. **Block All**: Press to lock all TV ratings.

- **Child Lock** is available only in TV mode.

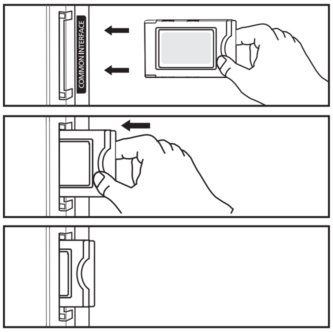
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to '0-0-0-0':
  POWER (Off), 🔇**MUTE**, **8**, **2**, **4**, **POWER** (On).

Setup	
Option	**Description**
Subtitle	You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. Normal under the menu is the basic subtitle and Hard of hearing is the subtitle for a hearing-impaired person. ■ **Subtitle** → **Off** / **On**: Switches subtitles off or on. ■ **Mode** → **Normal** / **Hard of hearing**: Sets the subtitle mode. ■ **Subtitle Language**: Set the subtitle language. • If the programme you are watching does not support the **Hard of hearing** function, **Normal** automatically activates even though **Hard of hearing** mode is selected. • English is the default in cases where the selected language is unavailable in the broadcast.
Teletext Language	You can set the Teletext language by selecting the language type. ■ English is the default in cases where the selected language is unavailable in the broadcast.
Preference	■ **Primary Audio Language** / **Secondary Audio Language** / **Primary Subtitle Language** / **Secondary Subtitle Language** / **Primary Teletext Language** / **Secondary Teletext Language** Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel. If you change the language setting, the Subtitle Language, Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language. The Subtitle Language, Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language, or the Primary Teletext Language of the Preference menu.
Digital Text	■ **Disable / Enable** If the programme is broadcast with digital text, this feature is enabled. • **MHEG** (**Multimedia and Hypermedia Information Coding Experts Group**) An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, teleconferencing, digital libraries and network games.
Light Effect (PS58B680/PS63B680 only)	■ **Off / In Standby / Watching TV / Always** You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes. • **Off**: The blue LED is always off. • **In Standby**: The blue LED lights while in Standby mode and it turns off when your TV is turned on. • **Watching TV**: The blue LED lights when watching TV and it turns off when your TV is turned off. • **Always**: The blue LED always lights. – Set the Light Effect to Off to reduce the power consumption.

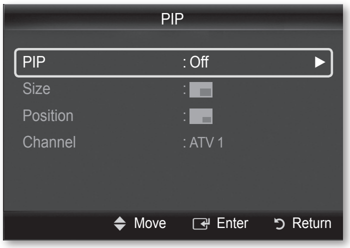
■ You can select these options simply by pressing the **SUBT.** button on the remote control.

Setup	
Option	**Description**
Melody	■ **Off** / **Low**/ **Medium** / **High** The TV power on / off melody sound can be adjusted. • **The Melody does not play** – When no sound is output from the TV because the 🔇 **MUTE** button has been pressed. – When no sound is output from the TV because the –◢ (Volume) button has been pressed. – When the TV is turned off by **Sleep Timer** function.
Energy Saving	This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption. ■ **Off**: Turns off the energy saving function. ■ **Low**: Sets the TV to low energy saving mode. ■ **Medium**: Sets the TV to medium energy saving mode. ■ **High**: Sets the TV to high energy saving mode.
Common Interface	The CI+ function is only applicable to PS********P. If you have some problems, please contact to service provider ■ **Installing the CI Card** **1.** Purchase the CI CAM module by visiting your nearest dealer or by phone. **2.** Insert the CI CARD into the CAM in the direction of the arrow until it fits. **3.** Insert the CAM with the CI CARD installed into the common interface slot. • Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot. **4.** Check if you can see a picture on a scrambled signal channel. ■ **CI Menu** This enables the user to select from the CAM-provided menu. Select the CI Menu based on the menu PC Card. ■ **Application Info.** This contains information on CAM inserted in the CI slot and displays it. The Application Info inserting is about the CI CARD. You can install the CAM anytime whether the TV is ON or OFF. • CAM is not supported in some countries and regions,check with your authorized dealer.

- Press the **TOOLS** button to display **Tools** menu.
  You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.



Setup	
Option	**Description**
	■ **PIP** You can display a sub picture within the main picture of set programme me or video input. In this way, you can watch the picture of set programme me or video input from any connected equipment while watching the main picture. • **Size** → ▭ / ▭ / ◫ / ◫ You can select a size of the sub-picture. If main picture is in HDMI mode, Size is not available. • **Position** → ▭ / ▭ / ▭ / ▭ You can select a position of the sub-picture. – In Double (◫,◫) mode, Position cannot be selected. • **Channel** You can select a channel of the sub-picture.


PIP

PIP : Off ►
Size : ▭
Position : ▭
Channel : ATV 1

Move
Enter
Return

- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

- Press the **TOOLS** button to display **Tools** menu. You can also configure PIP related settings by selecting **Tools** → **PIP**.

PIP Settings

Main picture	Sub picture
Component HDMI1, HDMI2/DVI, HDMI3, HDMI4 PC	TV

Network Connection

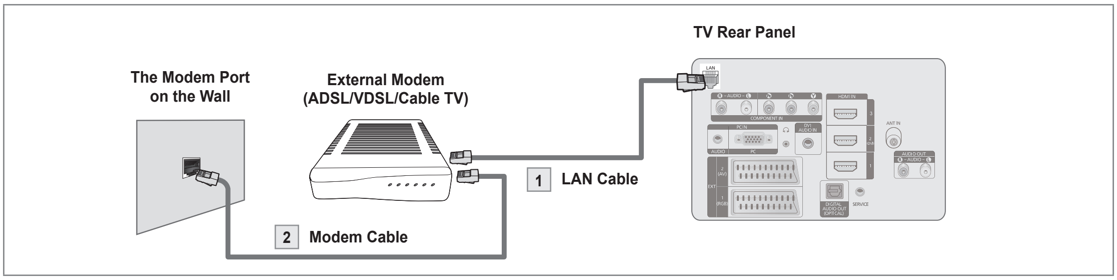
Network Connection is for DLNA, Contents Library-Internet download, Internet@TV and Home Network Centre.

Network Connection - Cable

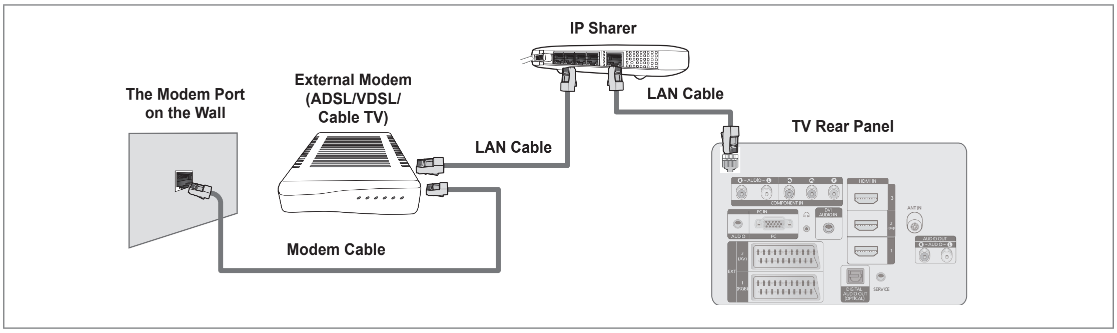
- LAN Connection for a DHCP Environment

The procedures to set up the network using Dynamic Host Configuration Protocol (DHCP) are described below. Since an IP address, subnet mask, gateway, and DNS are automatically allocated when DHCP is selected, you do not have to enter them manually.

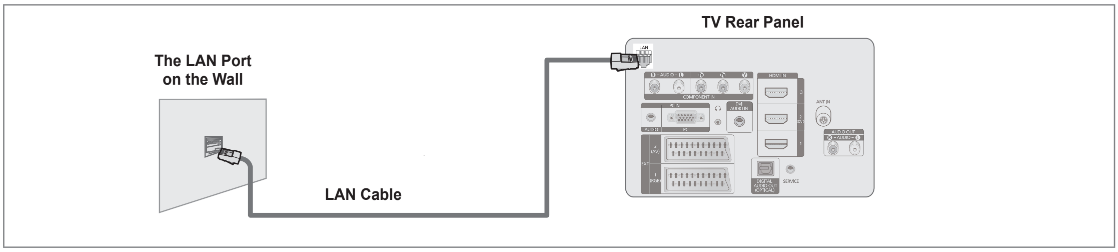
1. Connect the LAN port on the rear panel of the TV and the external modem with a LAN Cable.
2. Connect the Modem port on the wall and the external modem with a Modem Cable.


TV Rear Panel
The Modem Port on the Wall
External Modem (ADSL/VDSL/Cable TV)
1 LAN Cable
2 Modem Cable

You can connect the LAN via a Sharer (Router).


IP Sharer
The Modem Port on the Wall
External Modem (ADSL/VDSL/ Cable TV)
LAN Cable
LAN Cable
TV Rear Panel
Modem Cable

You can connect the LAN port and the TV directly depending on your network status.

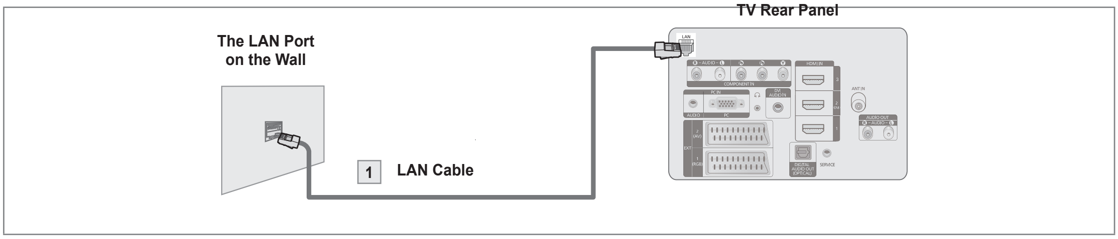


- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If the IP address allocation by the DHCP server has failed, turn the external modem off, turn it on again after at least 10 seconds and then try again.
- For the connections between the external modem and the Sharer (Router), refer to the owner’s manual of the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router)
- You cannot use a manual-connection-type ADSL modem because it does not support DHCP. You have to use an automaticconnection-type ADSL modem.

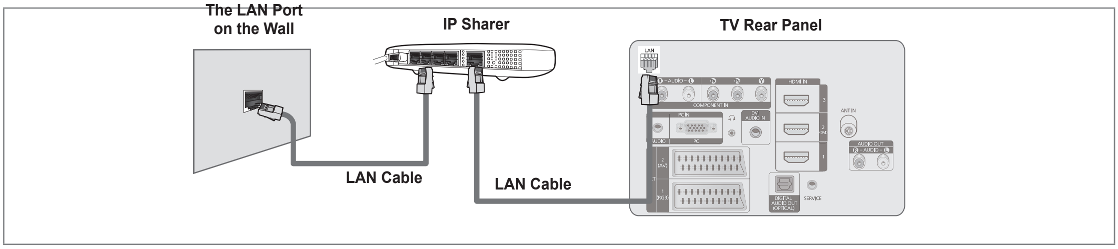
LAN Connection for Static IP Environment

The procedures to set up the network using a static IP address are described below. You have to manually enter the IP address, subnet mask, gateway, and DNS that are provided by your Internet Service Provider (ISP).

Connect the LAN port on the rear panel of the TV and the LAN port on the wall using the LAN cable.



You can connect the LAN via a Sharer (Router).

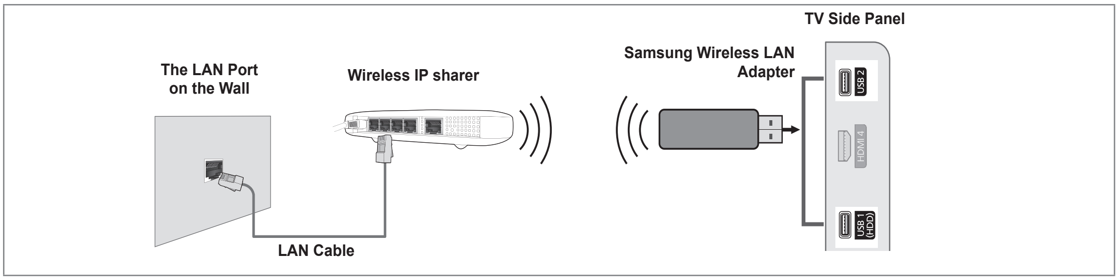


- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If you are using a static IP address, your ISP will inform you of the IP address, subnet mask, gateway, and DNS. You must enter these values to complete the network settings. If you do not know the values, ask your network administrator.
- For the information on how to configure and connect a Sharer (Router), refer to the owner’s manual for the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- If you use an IP Sharer (IP Router) that supports DHCP, you can set up the device as either DHCP or static IP.
- For the procedures to use a static IP address, ask your Internet Service Provider.

Network Connection - Wireless

You can connect to the network wirelessly through a wireless IP sharer.

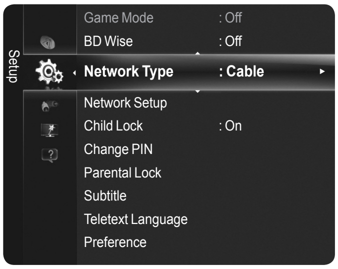
Connect the 'Samsung Wireless LAN Adapter' into the **USB1(HDD) or USB2** terminal of the TV.



- You must use the 'Samsung Wireless LAN Adapter'(WIS09ABGN) to use a wireless network.
- Samsung's Wireless LAN adapter is sold separately. The WIS09ABGN Wireless LAN adapter is offered by select retailers, Ecommerce sites and Samsungparts.com.
- To use a wireless network, your TV must be connected to a wireless IP sharer. If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- Samsung's Wireless LAN adapter supports IEEE 802.11A, IEEE 802.11B, IEEE 802.11G, IEEE 802.11N. When you play DLNA video over IEEE 802.11B/G connection, the video may not be played smoothly.
- If the wireless IP sharer allows you to turn the Ping connection function on/off, turn it on.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communications may fail.
- If you apply a security system other than the systems listed blow, it will not work with the TV.
- When applying the security key for the AP (wireless IP sharer), only the following is supported.
  1. Authentication Mode : OPEN, SHARED, WPAPSK, WPA2PSK
  2. Encryption Type : WEP, TKIP, AES
- When applying the security key for the Ad-hoc mode, only the following is supported.
  1. Authentication Mode : SHARED, WPANONE
  2. Encryption Type : WEP, TKIP, AES
- If your AP supports WPS(Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- If the device isn't certified, it may not connect to the TV via the 'Samsung Wireless LAN Adapter'.

Setting the Network

Setup	
Option	**Description**
Network Type	Select Cable or Wireless as the method to connect to the network. ■ **Cable** Connect to the network using a cable. ■ **Wireless** Connect to the network wirelessly.
Network Setup	■ **Cable Network Setup** (when **Network Type** is set to **Cable**) • **Internet Protocol Setup → Auto / Manual** • **Network Test**: You can test or confirm the network connection status after setting up the network. ■ **Cable Network Setup-Auto** If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured. **1.** Set **Network Type** to **Cable**. **2.** Select **Cable Network Setup**. **3.** Set **Internet Protocol Setup** to **Auto**. • The Internet Protocol is set automatically. **4.** Select **Network Test** to check the network connectivity.


Game Mode : Off
BD Wise : Off
Network Type : Cable
Network Setup
Child Lock : On
Change PIN
Parental Lock
Subtitle
Teletext Language
Preference

- The menu is activated only if the ‘Samsung Wireless LAN Adapter’ is connected.
- Please check if the LAN cable is connected.

When unable to connect to a wired network

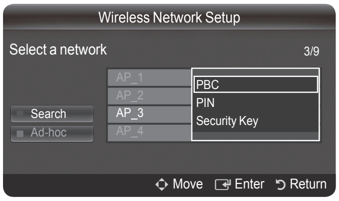
If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

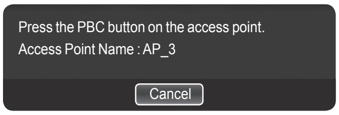
In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If your Internet service provider requires an ID or password to connect to the Internet (network), your TV may not be able to connect to the Internet. In this case, you have to enter your ID or password when connecting to the Internet using an Internet Sharer (Router).

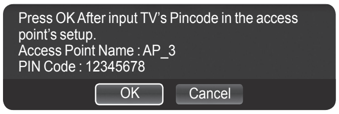
The internet connection may fail due to a firewall problem. In this case, contact your Internet service provider. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact Samsung Electronics.

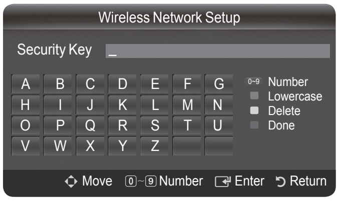
Setup	
Option	**Description**
Network Setup	■ **Cable Network Setup-Manual** To connect the TV to the LAN using a static IP address, you must set up the Internet Protocol (IP). **1.** Set **Network Type** to **Cable**. **2.** Select **Cable Network Setup**. **3.** Set **Internet Protocol Setup** to **Manual**. **4.** Set up **IP Address**, **Subnet Mask**, **Gateway** and **DNS Server**. • Press the number buttons on the remote control when you set the Network manually. **5.** Select **Network Test** to check the network connectivity. ■ **Wireless Network Setup** • **Internet Protocol Setup → Auto / Manual** • **Network Test**: You can test or confirm the network connection status after setting up the network. • **Select a network**: Access Point: You can select the IP sharer to use when using a wireless network. – If a wireless Access Point is not in the Access Point list, press the Red button. – When the connection is made, you will be returned to the screen automatically. – If you have selected an Access Point with a security authentication: The Security Key input screen appears. Enter the security key and press the Blue button on the remote control. – If security encryption type is WEP, 0~9, A~F will be available when you input security key. **Connecting WPS (Wi-Fi Protected Setup)** If Security Key is already set: In access point list, select **WPS**. ■ **You can select PBC, PIN, Security Key.** • Connecting by using **PBC**: Select a **PBC** (Push Button Configuration). Press the **PBC** button on the AP (access point) within 2minutes, and wait for connection. • Connecting by using **PIN**: Select a **PIN** (Personal Identification Number). – The message showing the PIN Code is displayed. Input the PIN Code at AP device within 2minutes. Select **OK** and wait for connection. – Try again if connecting operation doesn't work. – When the connection is not established although tried again, reset the access point. Please refer to a manual of each access point. • Connecting by using **Security Key**: When selecting **Security Key**, the input window is displayed. Input the security key and press **ENTER**⏎ button. – Try again if connecting operation doesn't work. • If **Security Key** is not set: When security setting of AP that supports WPS is NONE, you can select **PBC**, **PIN**, **None Security**. None Security is capable of connecting to AP directly without using WPC function. – Process of **PBC**, **PIN** is same as above. Refer to if **Security Key** is already set. – Try again if connecting operation doesn't work.

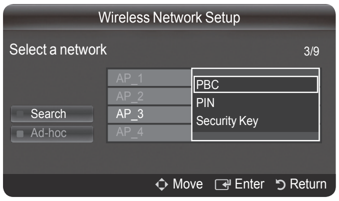
■ The menu is activated only if the 'Samsung Wireless LAN Adapter' is connected.


Wireless Network Setup
Select a network
3/9
AP_1
AP_2
AP_3
AP_4
Search
Ad-hoc
PBC
PIN
Security Key
Move
Enter
Return

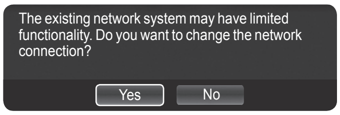

Press the PBC button on the access point.
Access Point Name : AP_3


Press OK After input TV's Pincode in the access point's setup.
Access Point Name : AP_3
PIN Code : 12345678


Wireless Network Setup
Security Key
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z
0~9 Number
Lowercase
Delete
Done
Move
0~9 Number
Enter
Return


Wireless Network Setup
Select a network
3/9
AP_1
AP_2
AP_3
AP_4
Search
Ad-hoc
PBC
PIN
Security Key
Move
Enter
Return

Setup	
Option	**Description**
Network Setup	■ **Ad-hoc**: You can connect to a mobile device without an access point through the 'Samsung Wireless LAN Adapter' by using a peer to peer network. **How to connect to new Ad-hoc** **1**. Choose **Select a network**, then a device list is displayed. **2**. While in the device list, press the Blue button on the remote or select **Ad-hoc**. • The message that means the existing network is disconnected is displayed. **3**. Input the generated **Network Name(SSID)** and **Security Key** into the device you want to connect. **How to connect an existing Ad-hoc device** **1**. Choose **Select a network**, the device list is displayed. **2**. Select the device you want in the Device list. **3**. If security key was applied, input the security key again. • If network doesn't operate normally, please check the **Network Name(SSID)** and **Security Key** again. If the **Security Key** is incorrect, it may be the reason for the malfunction. ■ **Wireless Network Setup-Auto** If you want to connect AP, AP should support DHCP. Only devices which support Ad-hoc mode can be connected without DHCP. **1.** Set **Network Type** to **Wireless.** **2.** Select **Wireless Network Setup.** **3.** Set **Internet Protocol Setup** to **Auto.** • The Internet Protocol is set automatically. **4**. Select a network through **Select a network**. **5**. Select **Network Test** to check the network connectivity. ■ **Wireless Network Setup-Manual** **1**. Set **Network Type** to **Wireless**. **2**. Select **Wireless Network Setup**. **3**. Set **Internet Protocol Setup** to **Manual**. **4**. Set up **IP Address**, **Subnet Mask**, **Gateway** and **DNS Server**. • Press the number buttons on the remote control when you set the Network manually. **5**. Select **Network Test** to check the network connectivity.


The existing network system may have limited functionality. Do you want to change the network connection?

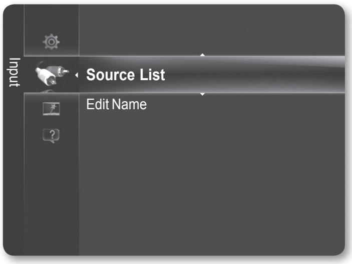
When unable to connect to an AP(Access Point)

Your TV may fail to locate an AP(Access Point) that is configured as a private SSID type. In this case, please change the AP settings and try again. If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics at 1-800-SAMSUNG.

Input Menu

Input	
Option	**Description**
Source List	Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice. ■ **TV, Ext.1, Ext.2, AV, Component, PC, HDMI1, HDMI2/ DVI, HDMI3, HDMI4, USB**. • You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom. • **Using the Colour buttons on the remote with the Source list** – **Red** (Refresh): Refreshes the connecting external devices. – **TOOLS** (Tools): Displays the **Edit Name** and **Information** menus.
Edit Name	You can name the device connected to the input jacks to make your input source selection easier. ■ **VCR** / **DVD** / **Cable STB** / **Satellite STB** / **PVR STB** / **AV Receiver** / **Game** / **Camcorder** / **PC** / **DVI PC** / **DVI** / **TV** / **IPTV** / **Blu-ray** / **HD DVD** / **DMA** • When a PC with a resolution of 1920 x 1080@60Hz is connected to the **HDMI IN 2 (DVI)** port, you should set the **HDMI2 / DVI** mode to **PC** in the **Edit Name** of the Input mode.



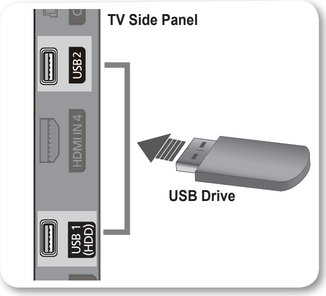
- ■ Press the **SOURCE** button on the remote control to view an external signal source.

Support menu

Support	
Option	**Description**
Legal Notice	You can view legal notice and general disclaimer regarding third party contents and services. ■ **General Disclaimer** This is full legal notice service regarding the Internet@TV. • The General Disclaimer may differ depending on the country. • You can move the previous or next page by pressing the ◀ or ▶ button.
Product Guide	The Product Guide gives you information on the most important features of this TV. ■ For more detailed information, select the desired item. • **Picture Quality** : 1080 Full HD Motion, Ultra FilterBright, 100Hz Motion Plus, Cinema Smooth, Picture Mode • **Medi@2.0** : Internet@TV-Content Service, Content Library Flash, USB2.0 Movie, DLNA Wireless • **Eco-Friendly** : Energy Saving, Eco-Material
Self Diagnosis	■ **Picture Test** If you think you have a picture problem, perform the picture test. Check the Colour pattern on the screen to see if the problem still exists. • **Does the problem still exist with this test photo?** appears on the screen. If the test pattern does not appear or there is noise in the test pattern, select **Yes**. If the test pattern is properly displayed, select **No**. – **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance. – **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual. ■ **Sound Test** If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV. • **Does the problem still exist with this sound test?** appears on the screen. If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. If you can hear sound from the speakers, select **No**. – **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance. – **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual. • If headphones are connected, the test melody will play through the headphones. ■ **Signal Strength** (Digital channels only) You can adjust your antenna to improve the reception of available digital channels. • If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

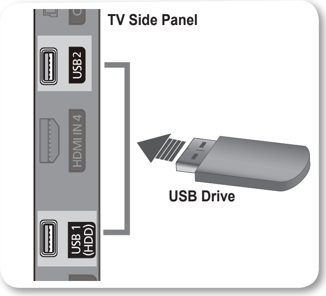
- ■ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.
- ■ The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the 🔇**MUTE** button.

Support	
Option	**Description**
Software Upgrade	To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade. ■ **By USB** Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings. ■ **By Channel** Upgrades the software using the broadcasting signal. • If the function is selected during the software transmission period, this function searches for available software and downloads the software. • The time required to download the software is determined by the signal status. ■ **Standby Mode Upgrade** To continue software upgrade with master power on, Select On by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the product. This phenomenon may continue for more than 1 hour until the software upgrade is completed. ■ **Alternative Software** Replace the current software with the alternative. • If software was changed, existing software is displayed. • You can change current software to alternative software by Alternative Software.
HD Connection Guide	The brief instruction on How to get the best performance from your new HDTV is displayed. We offer the connection method for HD devices. • You can move the previous or next page by pressing the ◀ or ▶ button.
Contact Samsung	You can know the Samsung Call center, website and information for product.



Media Play

Connecting a USB Device



1 Press the **POWER** button to turn the TV on.

2 Connect a USB device containing photo, music and movie files to the USB jack on the side of the TV.

Using the Remote Control Button in Media Play Menu

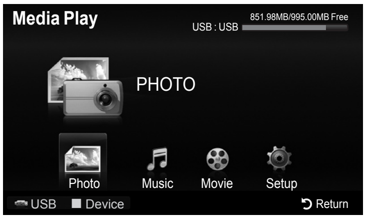
Button	Operations
▲/▼/◄/►	Move the cursor and select an item.
ENTER↵	Select the currently selected item. Play or pause the files while playing the slide show, music, or movie files.
▶ / ❚❚	Play or pause the slide show, music, or movie.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
■	Stop the current slide show, Music or Movie file.
◄◄ / ►►	Jump to previous group/Jump to next group.
INFO	Show file information.
MEDIA.P	Exit Media Play mode.
P ⌃ / ⌄	Stop Media Play mode and Returns to TV mode.
EXIT	Stop the current function and return to the Media Play main menu.

- USB 1(HDD) jack is also used as the HDD jack. HDD (Hard disk drive) is device which stores digitally encoded data.
- Media Play only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- MTP (Media Transfer Protocol) is not supported.
- The file system only supports FAT16/32 (The NTFS file system is not supported).
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- The sequential JPEG format is supported.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the **Not Supported File Format** message is displayed.
- If the number of photo files exceeds 4000 (or the number of music files exceeds 3000), any files exceeding the 4000 limit may not be displayed in the Photo List (or Music List).
- MP3 files with DRM that have been downloaded from a non-free site cannot be played.
- DRM(Digital Rights Management) prevents illegal uses of digital media for copyright protection.
- When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.

Media Play Function

This function enables you to view and listen to photo, music and movie files saved on a USB Mass Storage Class (MSC) device. It might not work properly with unlicensed multimedia files.

Entering the Media Play (USB & DLNA) Menu


Media Play
USB : USB
851.98MB/995.00MB Free
PHOTO
Photo
Music
Movie
Setup
USB
Device
Return

1. Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.

2. Press the ▲ or ▼ button to select **Media Play (USB & DLNA)**, then press the **ENTER** button.
   - The **Media Play** menu is displayed.

3. Press the Red button, then press the ▲ or ▼ button to select the corresponding USB Memory Device (i.e. if connected through a hub). Press the **ENTER** button.
   - This function differs depending on the USB Memory Device / DLNA device connected to TV.
   - The selected USB device name appears at the bottom left of the screen.

4. Press the ◄ or ► button to select an icon (**Photo**, **Music**, **Movie**, **Setup**), then press the **ENTER** button.
   - To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.
   - In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

- Press the **SOURCE** button on the remote control repeatedly to select USB, then press the **ENTER** button.
- Press the **MEDIA.P** button on the remote control to display the Media Play menu.

Removing a USB Memory Device Safely

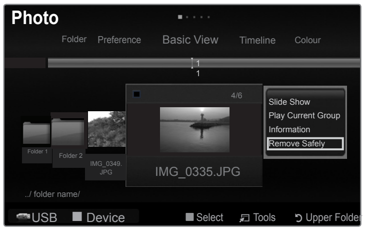


Photo
Folder
Preference
Basic View
Timeline
Colour
1
1
4/6
Folder 1
Folder 2
IMG_0349.JPG
IMG_0335.JPG
Slide Show
Play Current Group
Information
Remove Safely
../ folder name/
USB
Device
Select
Tools
Upper Folde

You can remove the device safely from the TV.

1. Press the **TOOLS** button in the Media Play file list screen, or while a slide s how, music or movie is being played.

2. Press the ▲ or ▼ button to select **Remove Safely**, then press the **ENTER** button.

3. Remove the USB device from the TV.

Screen Display

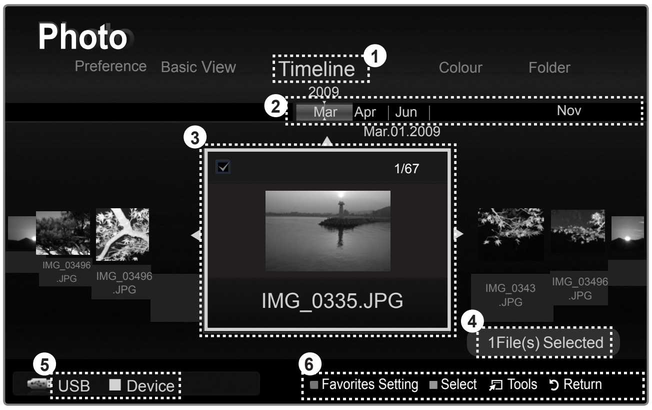


Photo
Preference
Basic View
Timeline
Colour
Folder
2009
Mar
Apr
Jun
Nov
Mar.01.2009
1/67
IMG_03496 .JPG
IMG_03496 .JPG
IMG_0335.JPG
IMG_0343 .JPG
IMG_03496 .JPG
1File(s) Selected
USB
Device
Favorites Setting
Select
Tools
Return
1
2
3
4
5
6

❶ Current Sort Standard: This field shows the current standard for sorting files.

❷ View Groups: The sorting group including the currently selected photo is highlighted.

❸ Currently selected file: The currently selected file is highlighted.

❹ Item Selection Information: Shows the number of photos that are selected by pressing the Yellow button.

❺ Current Device: Shows the currently selected device name.

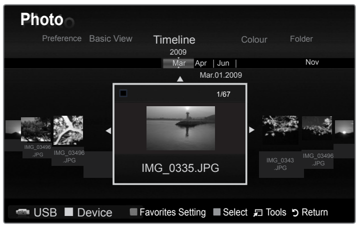
- Red (**Device**) button: Selects a connected device.

❻ Help Items

- Green (**Favourites Setting**) button: Changes the Favourites Setting for the selected file. Press this button repeatedly until the desired value appears.
- Yellow (**Select**) button: Selects file from the file list. Selected files are marked with a symbol ✓. Press the yellow button again to cancel a file selection.
- **TOOLS** (**Tools**) button: Displays the option menus. (The tools menu changes according to the current status.)
- ↺ **RETURN** (**Return**) button: Return to previous menu.

Sorting the Photo List

You can sort photos in the Photo List by a particular standard.



1. Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
2. Press the ◄ or ► button to select **Photo**, then press the **ENTER**↵ button.
3. Press the ▲ button twice, then press the ◄ or ► button to select a sorting standard in the Photo list. (**Basic View**, **Timeline**, **Colour**, **Folder**, **Preference**)
   - The photos are sorted according to the newly selected sorting standard.
   - To move to the previous/next group, press the ⏪ (REW) or ⏩ (FF) button.
4. Press the ▼ button twice, then press the ▶(Play)/**ENTER**↵ button to start the Slide Show in the order selected by the user.
   - The information of a photo file is automatically set.
   - The **Colour** information extracted from a photo file may be different from the user's expectations.
   - You can change the **Colour**, and **Preference**.
   - Photos for which information cannot be displayed are set as **Unclassified**.
   - PTP does not support folder sort mode.

Option	Description
Basic View	It shows whole folder. You can view the photo by selecting the folder.
Timeline	It sorts and shows photos by date. It sorts by year and month from the earliest photo.
Colour	It sorts photos by colour. You can change the photo colour information. ■ To use this function, set the **Use Colour View** in the **Setup** menus to **On**. ■ **Colour** options: Red, Yellow, Green, Blue, Magenta, Black, Gray, Unclassified.
Folder	It Sorts photos by folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	It Sorts photos by preference (Favourites). You can change the photo preferences. ■ Changing the Favourites Settings. Select the desired photo in the Photo list, then press the Green button repeatedly until the desired setting appears. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting. ■ Favourites options: ☆☆☆, ☆☆★, ☆★★, ★★★

Photo List Tools Menu

Option	Description
Slide Show	You can play a Slide Show using the photo files on the USB memory device.
Play Current Group	You can play a Slide Show using only the photo files in the currently selected sorting group.
Change Group (When the Sort key is the Colour)	You can change the Colour information of photo files. ■ The group information of the current file is updated and the file is moved to the new group. ■ To change the information of multiple files, select the files you want by pressing the Yellow button.
Information	The photo file information including the name, the size, the resolution, the date modified and the path is displayed. ■ You can view the information of photo files during a Slideshow using the same procedures.
Remove Safely	You can remove the device safely from the TV.

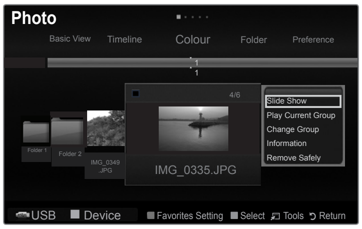
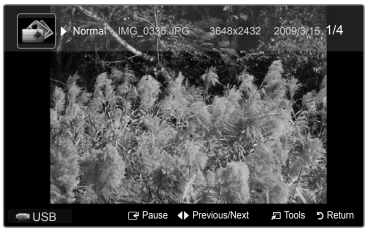


Photo
Basic View
Timeline
Colour
Folder
Preference
1
1
Folder 1
Folder 2
IMG_0349 .JPG
4/6
IMG_0335.JPG
Slide Show
Play Current Group
Change Group
Information
Remove Safely
USB
Device
Favorites Setting
Select
Tools
Return

- Alternatively, select a photo from the photo list and press the **INFO** button to view the information.

Viewing a Photo or Slide Show

Viewing a Slide Show



1 Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.

2 Press the ◄ or ► button to select **Photo**, then press the **ENTER↵** button.

3 Press the ◄ or ► button to select the desired photo in the Photo list.

4 Press the **TOOLS** button.

5 Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER↵** button.
- All files in the photo list will be used for the Slide Show.
- During the slide show, files are displayed in order from the currently shown file.
- The Slide Show progresses in the order sorted in the Photo list.
- Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.
- While a photo list is displayed, press the ▶(Play)/**ENTER↵** button on the remote control to start slide show.

Slideshow Control Buttons

Button	Operations
ENTER↵	Play/Pause the Slide Show.
▶	Play the Slide Show.
❚❚	Pause the Slide Show.
■	Exit Slide Show and return to the photo list.
◀◀ / ▶▶	Change the Slideshow playing speed.
TOOLS	Run various functions from the Photo menus.

Playing Current Group

1 Press the ◄ or ► button to select a sorting standard. (**Basic View**, **Timeline**, **Colour**, **Folder**, **Preference**)

2 Press the ▼ button, then Press the ◄ or ► button to select the desired group.

3 Press the ▼ button, then press the **TOOLS** button.

4 Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER↵** button.

Playing the selected photo files

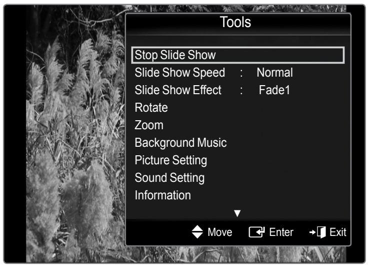
1 Press the ◄ or ► button to select the desired photo in the Photo list.

2 Press the yellow button. Repeat the above operation to select multiple photos.
- The ✓ mark appears to the left of the selected photo.
- To deselect all selected files, press the **TOOLS** button and select **Deselect All**.

3 Press the ▶ (Play)/**ENTER↵** button.
- The selected files will be used for the Slide Show.

Slide Show Tools Menu

Option	Description
Stop Slide Show / Start Slide Show	You can start or stop a Slide show.
Slide Show Speed	■ **Normal** / **Fast** / **Slow** You can select the slide show speed only during the slide show. • You can also change the speed of the Slide Show by pressing the ⏪ (REW) or ⏩ (FF) button during the Slide Show.
Slide Show Effect	■ **Fade1**, **Fade2**, **Blind**, **Spiral**, **Checker**, **Linear**, **Stairs**, **Wipe**, **Random**, **None** You can set variously the slide show effect.
Rotate	■ **0˚/ 90˚ / 180˚ / 270˚** You can rotate photos saved on a USB memory device. • Whenever you press the ◀ button, it rotates by 270˚, 180˚, 90˚, and 0˚. • Whenever you press the ▶ button, it rotates by 90˚, 180˚, 270˚, and 0˚. • If you have select **Zoom**, the Rotate function is deactivate • The rotated file is not saved.
Zoom	■ **x1** / **x2** / **x4** You can magnify photos saved on a USB memory device. ■ Press the ◀ or ▶ button repeatedly to increase or decrease the Zoom effect. ■ To move the enlarged photo image, press the **ENTER**⏎ button, then press the ▲/▼/◀/▶ buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn’t work. ■ The enlarged file is not saved.
Background Music	You can select background music when watching a Slide Show. ■ **Background Music** → **On** / **Off** ■ **BGM Mode** → **Mood** / **Selected File** / **Shuffle** ■ **BGM Mood** → **Energetic** / **Rhythmical** / **Sad** / **Exciting** / **Calm** • If you set **BGM Mode** to **Mood**, you can select the **BGM** Mood. ■ **Select Music File** • If you set **BGM Mode** to **Selected File**, you can select a music file.
Picture Setting / Sound Setting	You can select the picture and sound settings. Refer to page 56.
Information	The photo file information is displayed.
Remove Safely	You can remove the device safely from the TV.

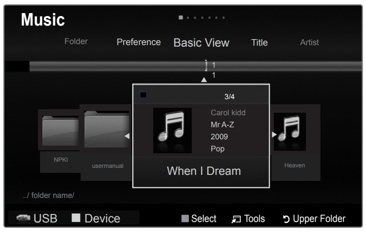


Tools
Stop Slide Show
Slide Show Speed : Normal
Slide Show Effect : Fade1
Rotate
Zoom
Background Music
Picture Setting
Sound Setting
Information

- To use this feature, there must be music and photo files stored on the USB device.
- Loading music files is needed to change BGM mode. Play music files in music category to load.

Sorting the Music List

You can sort music files in the Music List by a particular standard.



1 Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.

2 Press the ◄ or ► button to select **Music**, then press the **ENTER**↵ button.

3 Press the ▲ button twice, then press the ◄ or ► button to select a sorting standard in the Music list. (**Basic View**, **Title**, **Artist**, **Mood**, **Genre**, **Folder**, **Preference**)
- Music files are sorted according to the newly selected sorting standard.
- To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.

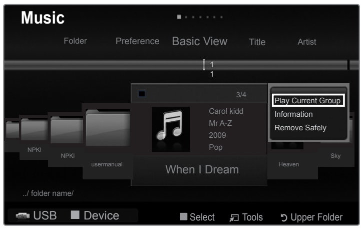
4 Press the ▼ button to move to the File List Section. Press the **ENTER**↵ button to start playing music in the order selected by the user.
- The information of the music files is automatically set.
- The Mood information extracted from a music file may differ from the expectations of the user.
- You can change the **Mood** and **Preference**.
- Music files for which information cannot be displayed are set to **Unclassified**.

Option	Description
Basic View	It shows whole folder. You can view the photo by selecting the folder.
Title	It sorts the Music titles in alphabetical order, and shows the music file.
Artist	It sorts the music file by artist in alphabetical order.
Mood	It sorts music files by the mood. You can change the music mood information. ■ **Mood** options: Energetic, Rhythmical, Sad, Exciting, Calm.
Genre	It sorts music files by the genre.
Folder	It sorts music files by the folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	It sorts music files by preference (Favourites). You can change the music files preferences. ■ Changing the Favourites Setting Select the desired music file in the Music list, then press the Green button repeatedly until the desired setting appears. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting. ■ Favourites options: ☆☆☆, ☆☆★, ☆★★, ★★★

- If there is no title information for a music file, the filename is displayed.

Music List Tools Menu

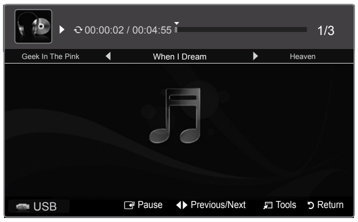
Option	Description
Play Current Group	You can only play music files in the currently selected sorting group.
Change Group (When the Sort key is Mood)	You can change the mood information of music files. ■ The group information of the current file is updated and the file is moved to the new group. ■ To change the information of multiple files, select files by pressing the Yellow button.
Information	The music file information including the name, the size, the date modified and the path is displayed.
Remove Safely	You can remove the device safely from the TV.


Music
Folder
Preference
Basic View
Title
Artist
1
1
3/4
Carol kidd
Mr A-Z
2009
Pop
When I Dream
Play Current Group
Information
Remove Safely
NPKI
NPKI
usermanual
Heaven
Sky
../ folder name/
USB
Device
Select
Tools
Upper Folder

- Alternatively, select a music file from the music list and press the **INFO** button to view the information.

Playing a Music

Playing a Music File


00:00:02 / 00:04:55
1/3
Geek In The Pink
When I Dream
Heaven
USB
Pause
Previous/Next
Tools
Return

1 Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.

2 Press the ◄ or ► button to select **Music**, then press the **ENTER**↵ button

3 Pressing the ◄ or ► button to select a music file to be played.

4 Press the ▶ (Play)/**ENTER**↵ button.
- This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
- ◀◀ (REW) or ▶▶ (FF) buttons do not function during play.
- The selected file is displayed at the top with its playing time.
- To adjust the music volume, press the volume button on the remote control. To mute the sound, press the 🔇 **MUTE** button on the remote control.
- The playing duration of a music file may be displayed as ‘00:00:00’ if its playing time information is not found at the start of the file.

Music Play Control Buttons

Button	Operations
ENTER↵	Play/Pause the music file.
▶	Play the music file
⏸	Pause the music file
■	Exit play mode and return to the music list.
TOOLS	Run various functions from the Music menus.

Music Function Information Icon

🔁	When all music files in the folder (or the selected file) are repeated. **Repeat Mode** is **On**.
↻	When all music files in the folder (or the selected file) are played once. **Repeat Mode** is **Off**.

Playing the Music Group

1 Press the ◀ or ▶ button to select a sorting standard.(**Basic View**, **Title**, **Artist**, **Mood**, **Genre**, **Folder**, **Preference**)

2 Press the ▼ button, then Press the ◀ or ▶ button to select the desired group.

3 Press the ▼ button, then press the **TOOLS** button.

4 Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER**⏎ button.

Playing the selected Music Files

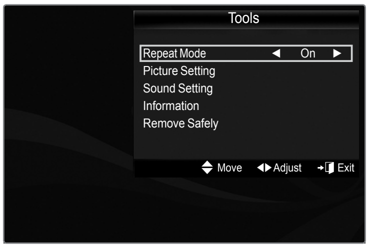
1 Press the ◀ or ▶ button to select the desired music file in the music list.

2 Press the yellow button. Repeat the above operation to select multiple music files.

- The ✓ appears to the left of the selected music file.
- To deselect all selected files, press the **TOOLS** button and select **Deselect All**.

3 Press the ⏵ (Play)/**ENTER**⏎ button.

- The selected files will be played.



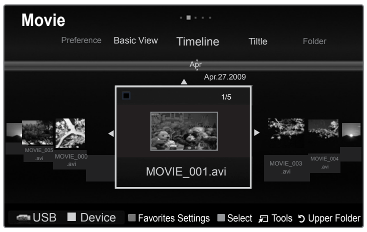
Repeat Mode ◀ On ▶

Music Play Tools Menu

Option	Description
Repeat Mode	You can play music files repeatedly.
Picture Setting / Sound Setting	You can configure the picture and sound settings. Refer to page 56
Information	The music file information is displayed.
Remove Safely	You can remove the device safely from the TV.

Sorting the Movie List

You can sort movies in the Movie List by a particular standard.

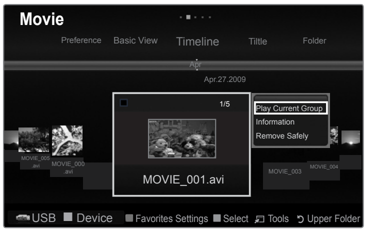

Movie
Preference
Basic View
Timeline
Tiltle
Folder
Apr
Apr.27.2009
1/5
MOVIE_005 .avi
MOVIE_000 .avi
MOVIE_001.avi
MOVIE_003 .avi
MOVIE_004 .avi
USB
Device
Favorites Settings
Select
Tools
Upper Folder

1. Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
2. Press the ◄ or ► button to select **Movie**, then press the **ENTER**↵ button.
3. Press the ▲ button twice, then press the ◄ or ► button to select a sorting standard in the Movie list. (**Basic View**, **Timeline**, **Title**, **Folder**, **Preference**)
   - The movie files are sorted according to the newly selected sorting standard.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
4. Press the ▼ button twice, then press the ► (Play)/**ENTER**↵ button to play the movie in the order selected by the user.
   - The information of the movie files is automatically set.
   - You can change the **Preference**.

Option	Description
Basic View	It shows whole folder. You can view the photo by selecting the folder.
Timeline	It sorts and shows movies by date. It sorts by year and month from the earliest movie.
Title	It sorts and displays the Movie titles in Symbol/Number/Alphabet/Special order.
Folder	If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	It sorts movies by preference (favourites). You can change the movie preferences. ■ Changing the Favourites Setting Select the desired movie file in the movie list, then press the Green button repeatedly until the desired setting appears. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting. ■ Favourites options: ☆☆☆, ☆☆★, ☆★★, ★★★

Movie List Tools Menu

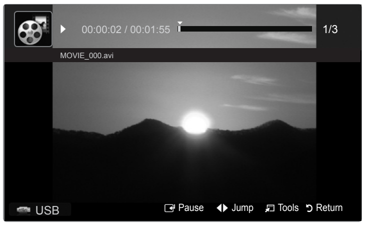
Option	Description
Play Current Group	You can only play movie files in the currently selected sorting group.
Information	The movie file information including the name, the size, the date modified and the path is displayed.
Remove Safely	You can remove the device safely from the TV.


Movie
Preference
Basic View
Timeline
Tiltle
Folder
Apr
Apr.27.2009
1/5
Play Current Group
Information
Remove Safely
MOVIE_005 .avi
MOVIE_000 .avi
MOVIE_001.avi
MOVIE_003
MOVIE_004
USB
Device
Favorites Settings
Select
Tools
Upper Folder

- Alternatively, select a movie file from the list and press the INFO button to view the information.

Playing a Movie File

Playing a movie file



1. Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
2. Press the ◀ or ▶ button to select **Movie**, then press the **ENTER↵** button
3. Pressing the ◀ or ▶ button to select a movie to be played.
4. Press the ▶ (Play)/**ENTER↵** button.
   - ■ The selected file is displayed at the top with its playing time.
   - ■ The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
   - ■ Press the ◀ button while playing a video file to rewind.
   - ■ Press the ▶ button to fast forward.

Supported Subtitle Formats

Name	File extension	Programming Language
MPEG-4(timed-text)	.ttxt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

Supported Video Formats

Video Codec			
File Extention	**Container**	**Video Decoder**	**Max Resolution Sti**
*.avi	AVI	XviD	720x576
		MPEG1	720x576
		MPEG2	720x576
		H.264 BP	1920x1088
		H.264 BP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mp4	MP4	H.264 BP	1920x1088
		H.264 MP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mpg	PS	MPEG1 (Program Stream)	1920x1088
*.mpeg		MPEG2 (Program Stream)	1920x1088
*.vro		MPEG2 VOB	1920x1088
*.vob		MPEG2 VRO	1920x1088
others (ts)	TS	MPEG2 (Transport Stream)	1920x1088
		H.264 (Transport Stream)	1920x1088

Video Play Control Buttons

Button	Operations
ENTER↵	Play/Pause the movie file
▶	Play the movie file
❚❚	Pause the movie file
■	Exit play mode and return to the movie list.
TOOLS	Run various functions from the Movie menus.
◀ / ▶	Skip forwards or backwards through the movie file.
▲ / ▼	Move to the first/last of the file.

Playing the movie group

1. Press the ◀ or ▶ button to select a sorting standard.(**Basic View**, **Timeline**, **Title**, **Folder**, **Preference**)
2. Press the ▼ button, then Press the ◀ or ▶ button to select the desired group.
3. Press the ▼ button, then press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER**↵ button.

Playing the selected Movie Files

1. Press the ◀ or ▶ button to select the desired movie file in the movie list.
2. Press the yellow button. Repeat the above operation to select multiple movie files.
   - The ✓ mark appears to the left of the selected movie file.
   - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
3. Press the ▭ (Play)/**ENTER**↵ button.
   - Only the selected file is played.

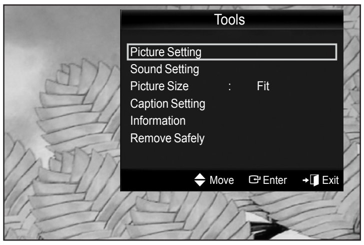
Playing Movie continuously (Resume Play)

If you exit playing movie, playing it continuously later is possible.
With **Play continuously** function, you can watch movie without watching again from beginning or bothering searching.

1. Select the movie file you want to play continuously by pressing the ◀ or ▶ button to select it from the Movie List.
2. Press the ▭ (Play)/**ENTER**↵ button.
3. Select **Play continuously** by pressing the Blue button.
   - Movie will begin to play from where it was stopped being played.
   - If **Cont. movie play help** function is set **On** in the Setup menu, a pop-up message will appear when you play movie file you want to **Play continuously**.

Movie Play Option Menu

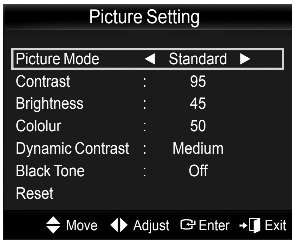
Option	Description
Picture Setting / Sound Setting	You can configure the picture and sound settings. Refer to page 56.
Picture Size	Adjust the picture size for preference. ■ **Fit** Play video at the TV screen size. ■ **Original** Play video at the original size.
Caption Setting	You can play the movies with caption. ■ **Caption**: **On** / **Off** ■ **Caption Language**: Select the caption language. ■ **Caption Size**: **Large** / **Small** / **Standard** ■ **Caption Sync**: Adjusts the caption output time. ■ **Caption Sync Reset**: Resets the Sync to the default values.
Information	The movie file information is displayed.
Remove Safely	You can remove the device safely from the TV.



Picture / Music Settings Using Media Play

When watching a Slide Show or listening to music using Media Play, you can set the picture and sound.

Picture Setting


Picture Setting

Picture Mode ◄ Standard ►
Contrast : 95
Brightness : 45
Cololur : 50
Dynamic Contrast : Medium
Black Tone : Off
Reset

1 Press the **TOOLS** button during a Slide Show or while music is playing.

2 Press the ▲ or ▼ button to select **Picture Setting**.

3 Press the ◄ or ► button to select the **Picture Mode** (**Dynamic**, **Standard**, **Eco**, or **Movie**).

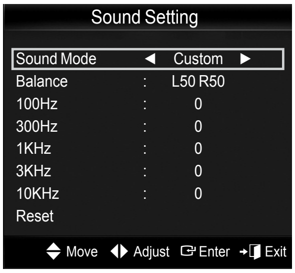
- When selecting **Dynamic**, **Eco**, you can't adjust **Dynamic Contrast**, **Black Tone**.

4 Press the ▲ or ▼ button to move to an item. (**Contrast**, **Brightness**, **Colour**, **Dynamic Contrast**, **Black Tone**, or **Reset**)

- Select **Reset** to initialize the picture settings.

5 Press the ◄ or ► button to adjust the settings.

Sound Setting


Sound Setting

Sound Mode ◄ Custom ►
Balance : L50 R50
100Hz : 0
300Hz : 0
1KHz : 0
3KHz : 0
10KHz : 0
Reset

1 Press the **TOOLS** button during a Slide Show or while music is playing.

2 Press the ▲ or ▼ button to select **Sound Setting**.

3 Press the ◄ or ► button to select the **Sound Mode**. (**Standard**, **Music**, **Movie**, **Clear voice**, or **Custom**)

4 Press the ▲ or ▼ button to move to an item. (**Balance**, **100Hz**, **300Hz**, **1KHz**, **3KHz**,**10KHz** (Bandwidth Adjustment), or **Reset**)

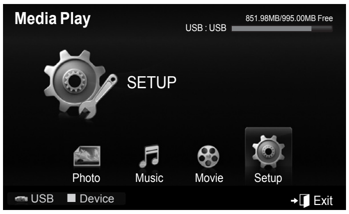
- Select **Reset** to initialize the sound settings.

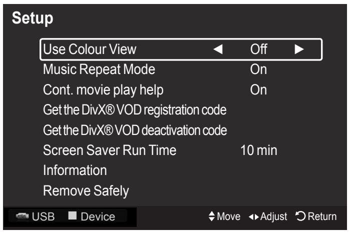
5 Press the ◄ or ► button to adjust the settings.

Using the Setup Menu

Setup displays the user settings of the **Media Play** menu.

1. Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
2. Press the ◄ or ► button to select **Setup**, then press the **ENTER**⏎ button.
3. Press the ▲ or ▼ button to select the desired option.
4. Press the ◄ or ► button to select the option.
   - ■ To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.





Use Colour View ◄ Off ►
Music Repeat Mode On
Cont. movie play help On
Get the DivX® VOD registration code
Get the DivX® VOD deactivation code
Screen Saver Run Time 10 min
Information
Remove Safely

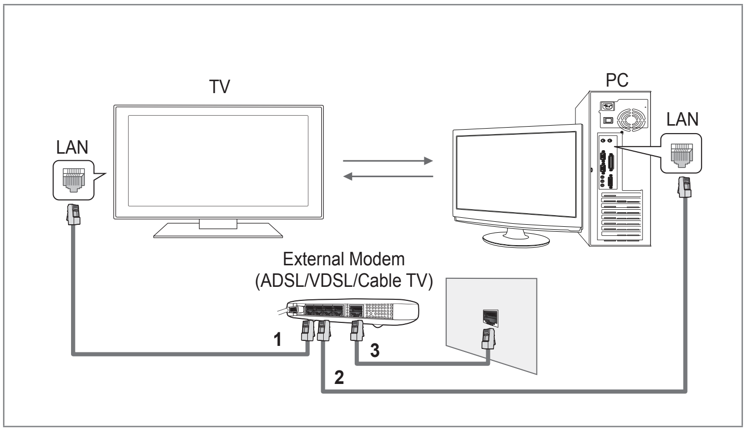
Option	Description
Use Colour View	Select to view the colour information in the Photo menu. ■ If this is set to **ON**, the loading time increases for collecting the colour information.
Music Repeat Mode	Select to repeatedly play music files.
Cont. movie play help	Select to display the help pop-up message for continuous movie playback.
Get DivX® VOD registration code	Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file. If you play the VOD registration using Media Play, the registration is completed. For more information on DivX® VOD, visit www.DivX.com.
Get DivX® VOD deactivation code	When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
Screen Saver Run Time	■ **10 min** / **20 min** / **1 hour** Select to set the waiting time before the screen saver appears.
Information	Select to viewing the information of the connected device.
Remove Safely	You can remove the device safely from the TV.

Media Play-DLNA

Setting the DLNA Network

DLNA allows you to watch pictures, musics and videos saved on your PC or on your TV through a network connection in Media Play mode. This removes the need to copy them to a USB storage device and then connect the device to your TV.
To use DLNA, the TV must be connected to the network and the DLNA application must be installed on your PC.

Network Connections for Media Play DLNA



1. Connect the LAN port on the rear panel of the TV to the external modem with a LAN Cable.
2. Connect the PC to which the DLNA PC Share Manager programme will be installed and the external modem using a LAN cable.
3. Connect the LAN port on the wall and the external modem with a Modem Cable.

Connecting to the Network

1. When connecting to the network is complete, set up the network on the TV.
   - ■ Three parts(subnet address) before the TV and PC IP addresses should be same. The last part (host address) should be changed. (e.g. IP Address: 123.456.789.**)
2. Run a **Network Test** to check the network settings.

Installing the DLNA Application

To play content on the PC on the TV, you have to first install the application.

System Requirements

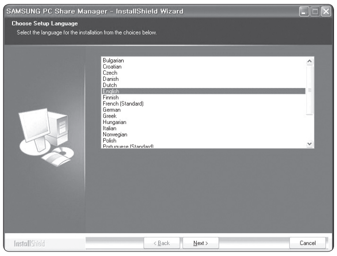
1 Insert the Programme CD supplied with this TV into your PC.

2 20MB of free hard disk space is needed for the programme installation.
- If you share files, up to 20MB of hard disk drive space is required for each 100 files.
- If you cancel file sharing, the hard disk drive space used for the thumbnail information is also freed.

Supported Formats

Image: JPEG (jpg, jpeg) / Audio: MP3 (mp3)
Video: MPEG1(mpg, mpeg), MPEG2 PS/TS(mpg, mpeg, trp, ts, tp), divx(mpg, mpeg, avi), MPEG4/H.264 (mpg, mpeg)

Install the Application

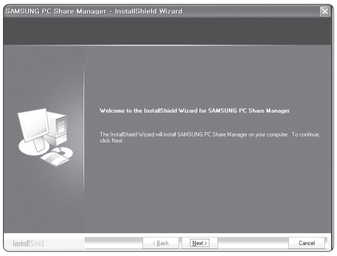

SAMSUNG PC Share Manager - InstallShield Wizard

Choose Setup Language

Select the language for the installation from the choices below.

Selected: English

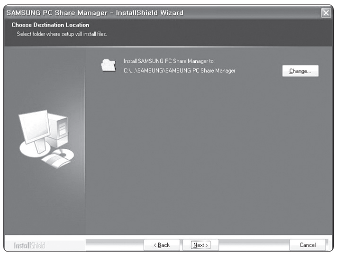
Bulgarian
Croatian
Czech
Danish
Dutch
English
Finnish
French (Standard)
German
Greek
Hungarian
Italian
Norwegian
Polish
Portuguese (Standard)
InstallShield
< Back
Next >
Cancel


SAMSUNG PC Share Manager - InstallShield Wizard

Welcome to the InstallShield Wizard for SAMSUNG PC Share Manager

The InstallShield Wizard will install SAMSUNG PC Share Manager on your computer. To continue, click Next.

InstallShield
< Back
Next >
Cancel

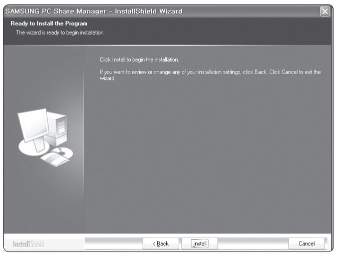

SAMSUNG PC Share Manager - InstallShield Wizard

Choose Destination Location

Select folder where setup will install files.

Install SAMSUNG PC Share Manager to:
C:\...\SAMSUNG\SAMSUNG PC Share Manager

Change...
InstallShield
< Back
Next >
Cancel


SAMSUNG PC Share Manager - InstallShield Wizard

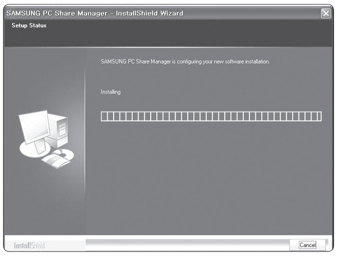
Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield
< Back
Install
Cancel

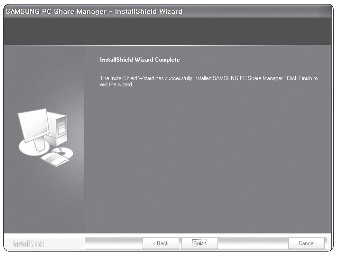

SAMSUNG PC Share Manager - InstallShield Wizard

Setup Status

SAMSUNG PC Share Manager is configuring your new software installation.

Installing

InstallShield
Cancel


SAMSUNG PC Share Manager - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed SAMSUNG PC Share Manager. Click Finish to exit the wizard.

InstallShield
< Back
Finish
Cancel

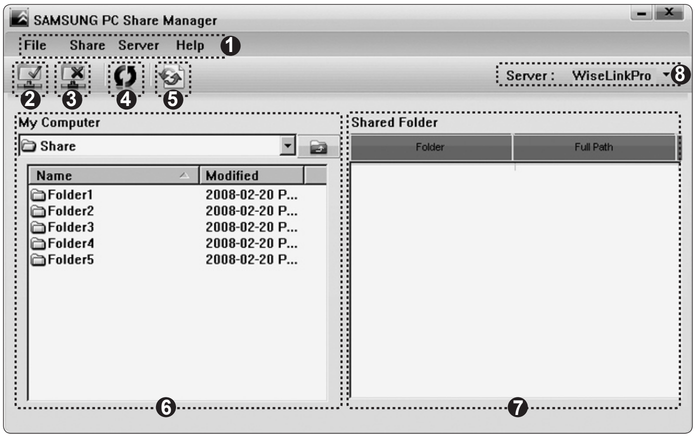
1 Run the Setup.exe file on the Programme CD supplied with the product.
- Alternatively, you can download the file from www.samsung.com.

2 Install the SAMSUNG PC Share Manager as shown in the figures below.

3 When the installation is complete, the PC Share Manager icon appears on your Desktop.
- Double-click the icon to run the programme.

Using the DLNA Application

Programme Screen Display



Name	Modified
Folder1	2008-02-20 P...
Folder2	2008-02-20 P...
Folder3	2008-02-20 P...
Folder4	2008-02-20 P...
Folder5	2008-02-20 P...

1 Menus: The following application menus are provided : **File**, **Share**, **Server**, and **Help**.

2 Click to share the selected PC server folder.

3 Click to cancel sharing.

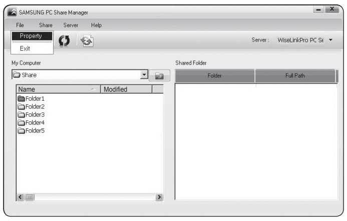
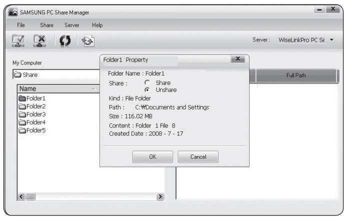
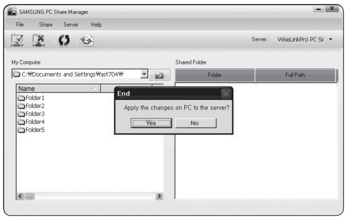
4 Click to refresh the PC folder and files.

5 Click to synchronize the share status.

6 The folders and files of the PC to be shared are listed.

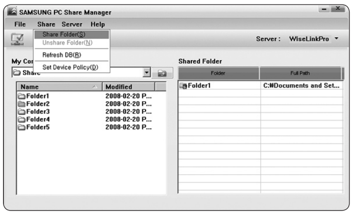
7 Folders shared by the user are listed.

8 PC server name shown on the device list of the Media Play.

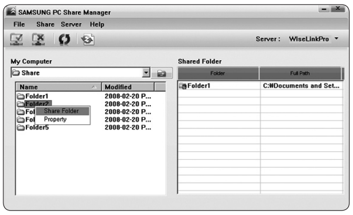
Option	Description
File	■ **Property** Shows information on the selected file or folder. – Method 1: Select a file or folder and select the **File** menu and then select the **Property** sub-menu. – Method 2: Select a file or folder, right-click over the selected file or folder and then select **Property** from the pop-up menu. <Method 1>  <Method 1>  Folder1 Property Folder Name : Folder1 Share : ○ Share ● Unshare Kind : File Folder Path : C:₩Documents and Settings Size : 116.02 MB Content : Folder 1 File 8 Created Date : 2008 - 7 - 17 ■ **Exit** Exits the DLNA application. If you select **Exit** without applying the changes after changing the shared status, a message will appear asking if you want to apply the changed settings to the PC. Select **Yes** to apply the changes and exit the application.  End Apply the changes on PC to the server? Yes No

Option	Description
Share	■ **Sharing a Folder** You can share a folder from your PC to the TV. The maximum number of folders that can be shared is 32. Your PC will operate as a server to the TV. – Method 1: Select a folder in **My Computer**, select the **Share** menu and then select the **Share Folder** sub-menu. – Method 2: Select a folder in **My Computer**, right-click over the selected folder and then select **Share Folder** from the popup menu. – Method 3: Locate the mouse pointer over a folder in the **My Computer** folder list in the left pane and drag & drop the folder into the Shared Folders pane. If a message appears asking you to confirm the shared folder, select **Yes**.

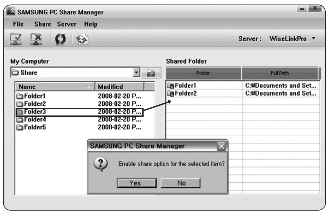
<Method 1>


SAMSUNG PC Share Manager
File Share Server Help
Share Folder(S)
Unshare Folder(N)
Refresh DB(R)
Set Device Policy(D)
Server : WiseLinkPro
Shared Folder
Folder
Full Path
Name
Modified
Folder1
Folder2
Folder3
Folder4
Folder5
C:\Documents and Set...

<Method 2>


SAMSUNG PC Share Manager
File Share Server Help
Server : WiseLinkPro
My Computer
Share
Shared Folder
Share Folder
Property
Folder1
C:\Documents and Set...

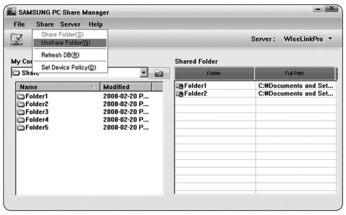
<Method 3>


SAMSUNG PC Share Manager
File Share Server Help
Server : WiseLinkPro
My Computer
Shared Folder
Folder1
Folder2
Yes
No

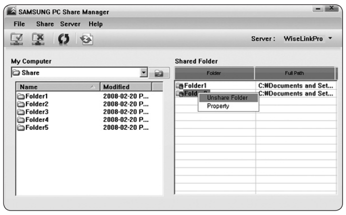
Enable share option for the selected item?

	■ **Cancelling a Shared Folder** You can cancel a shared folder on your PC. Select a folder from the **Shared Folder** pane and select **Unshare Folder**. – Method 1: Select a folder from the **Shared Folder** pane, select the **Share** menu and then select **Unshare Folder**. – Method 2: Select a folder from the **Shared Folder** pane, right-click over the selected folder and then select **Unshare Folder** from the pop-up menu. – Method 3: Locate the mouse pointer over a folder in the **Shared Folder** pane and drag&drop the folder into the **My Computer** pane. If a message appears asking you to confirm the cancelation, select **Yes**.

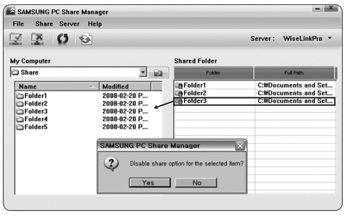
<Method 1>


SAMSUNG PC Share Manager
File Share Server Help
Share Folder(S)
Unshare Folder(N)
Refresh DB(R)
Set Device Policy(D)
Server : WiseLinkPro
Shared Folder
Folder1
Folder2

<Method 2>


SAMSUNG PC Share Manager
File Share Server Help
Server : WiseLinkPro
My Computer
Shared Folder
Unshare Folder
Property

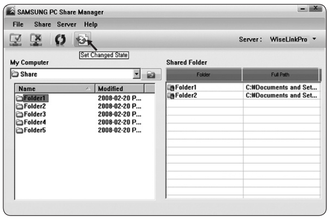
<Method 3>


SAMSUNG PC Share Manager
File Share Server Help
Server : WiseLinkPro
My Computer
Shared Folder
Folder1
Folder2
Folder3
Yes
No

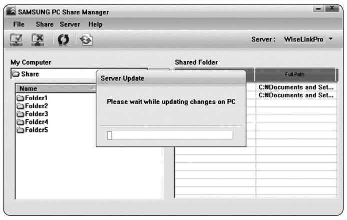
Disable share option for the selected item?

	■ **Applying the Current Settings** Perform this when synchronization is necessary due to a new shared folder or cancelling a shared folder. The **Set Changed State** menu applies changes to shared folders to the data saved with the PC share programme. Since applying changes to the internal data is a time-consuming process, this function enables users to apply changes to the data only when required. Until the **Set Changed State** menu is selected, the changed state of the shared folder is not applied to the server. Changes to the shared folders are not applied to your PC until you select the **Set Changed State** menu. – Method 1: Select the **Share** menu and select the Refresh DB sub-menu. – Method 2: Click the **Set Changed State** icon.

<Method 1>


SAMSUNG PC Share Manager
File Share Server Help
Set Changed State
Server : WiseLinkPro
My Computer
Share
Shared Folder
Folder1
Folder2

<Method 2>


SAMSUNG PC Share Manager
File Share Server Help
Server : WiseLinkPro
Server Update

Please wait while updating changes on PC

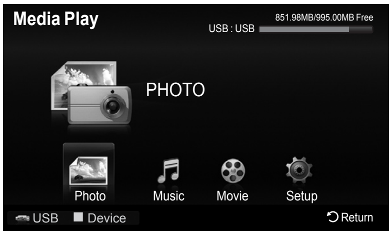
Option	Description
Share	■ **Setting the Access Permission** To enable the TV to find your PC, the TV must be set to **Set Device Policy** in the Access Permission Settings window. In addition, the PC server and the TV must be on the same subnet. – Method: Select the **Share** menu and select **Set Device Policy**. Rejected items are represented in gray. You can change the access permissions by using the Allow **Accept** / **Deny** button. To delete an item, select the item and select **Delete Item**.
Server	■ **Server** You can run or stop using your PC as a server. ■ **Start Server at Windows start** You can determine whether to start the PC server automatically when Windows starts. ■ **Change server name** You can rename the PC server. Enter a new name and click **OK**. The new name will appear at the top right of the window and will appear on the TV.
Help	■ **Version** The programme version information message box appears.

Using the DLNA Function

Using the DLNA Menu

DLNA (Digital Living Network Alliance) enables content saved on a DLNA server (usually your PC) connected to your TV or over a network to be played. Media Play enables playing content saved on a USB memory device connected to the TV, while DLNA enables playing content saved on a DLNA server (your PC) connected to your TV or over the network. The procedures to use the content are the same as those for **Media Play (USB & DLNA)**.

- ■ If you install the PC share manager programme supplied with the TV onto a PC, you can have the PC perform the role of a DLNA server over the network.



1 Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER**↵ button

2 Press the ▲ or ▼ button to select **Media Play (USB & DLNA)**, then press the **ENTER**↵ button.

3 Press the ◄ or ► button to select an icon (**Photo**, **Music**, **Movie**, **Setup**), then press the **ENTER**↵ button.
- ■ To exit **DLNA** mode, press the **MEDIA.P** button on the remote control.
- ■ DLNA does not support the following functions.
  - – The Background Music and Background Music Setting functions.
  - – Sorting files by preference in the Photo, Music, and Movie folders.
  - – The Change Group function.
  - – The Remove Safely function.
  - – The ◄◄ (REW) or ►► (FF) button functions while a movie is playing.
- ■ The Skip (◄/► keys) or Pause function may not work while a movie is playing for the DLNA of other manufacturers, depending on the corresponding content information.
- ■ The playing time may not be displayed while a movie is playing.

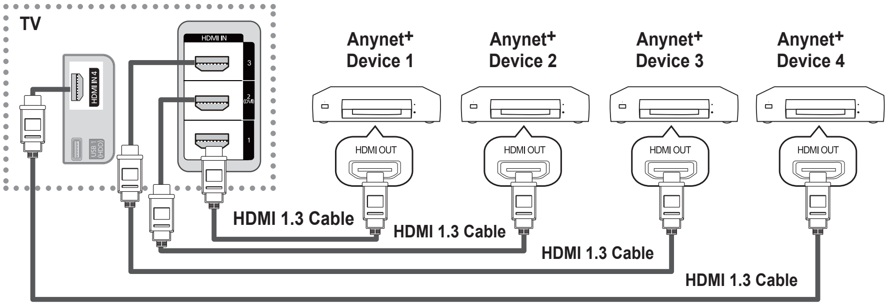
Anynet+

Connecting Anynet+ Devices

What is Anynet+?

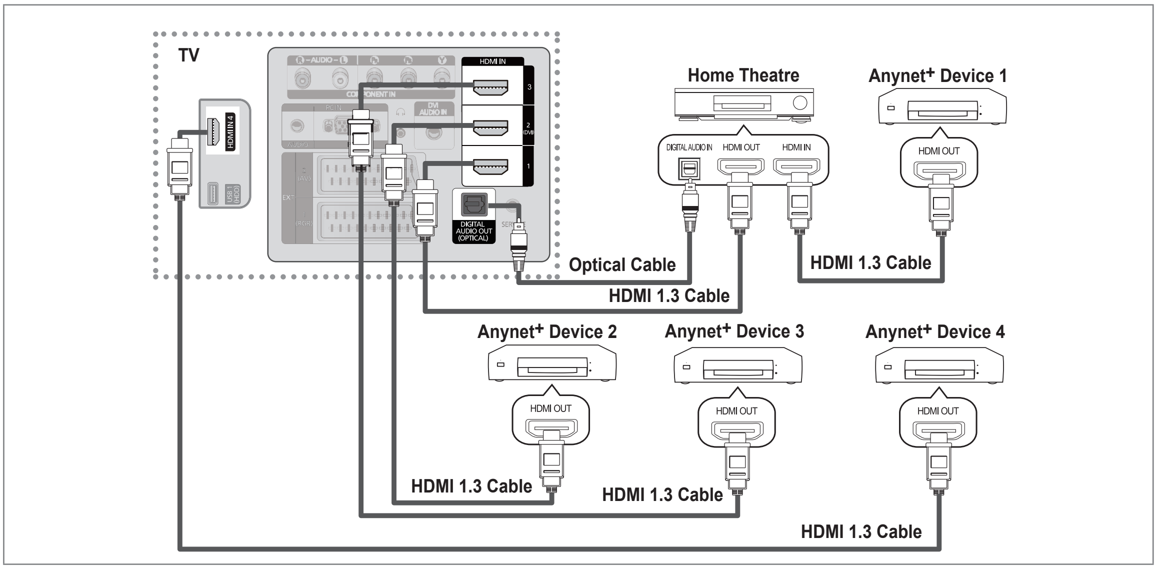
Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to a TV


TV
HDMI IN
3
2 (DVI)
1
HDMI IN 4
USB (HDD)
Anynet+ Device 1
Anynet+ Device 2
Anynet+ Device 3
Anynet+ Device 4
HDMI OUT
HDMI OUT
HDMI OUT
HDMI OUT
HDMI 1.3 Cable
HDMI 1.3 Cable
HDMI 1.3 Cable
HDMI 1.3 Cable

Connect the HDMI IN (1, 2(DVI), 3 or 4) jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

To connect to Home Theatre


TV
HDMI IN
HDMI IN 4
DIGITAL AUDIO OUT (OPTICAL)
Home Theatre
DIGITAL AUDIO IN
HDMI OUT
HDMI IN
Anynet+ Device 1
HDMI OUT
Optical Cable
HDMI 1.3 Cable
HDMI 1.3 Cable
Anynet+ Device 2
Anynet+ Device 3
Anynet+ Device 4
HDMI OUT
HDMI OUT
HDMI OUT
HDMI 1.3 Cable
HDMI 1.3 Cable
HDMI 1.3 Cable

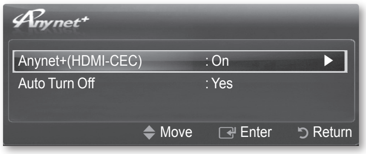
1. Connect the HDMI IN (1, 2(DVI), 3 or 4) jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

- Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theater.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD player or Cable/Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.
- Connect only one Home Theater.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.
- Anynet+ supports up to 3 devices simultaneously.

Setting Up Anynet+

Option	Description
Setup	■ **Anynet+ (HDMI-CEC) → Off / On** To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**. • When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated. ■ **Auto Turn Off → No / Yes** Setting an Anynet+ Device to turn Off automatically when the TV is turned Off. • The active source on the TV remote must be set to TV to use the Anynet+ function. • If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.

- Press the **TOOLS** button to display **Tools** menu.
  You can also display Anynet+ menu by selecting **Tools** → **Anynet+(HDMI-CEC).**

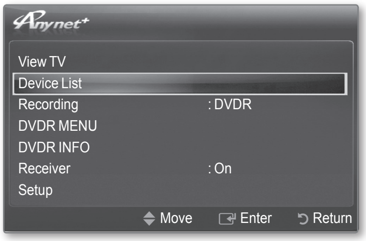

Anynet+(HDMI-CEC) : On
Auto Turn Off : Yes

Switching between Anynet+ Devices

1 Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC).**

2 Press the ▲ or ▼ button to select **Device List**, then press the **ENTER** button.
- ■ Anynet+ devices connected to the TV are listed. If you cannot find a device you want, press the red button to scan for devices.
- ■ Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Setup** menu, the **Device List** menu appears.

3 Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.
- ■ Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- ■ The time required to scan for devices is determined by the number of connected devices.
- ■ If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.


View TV
Device List
Recording : DVDR
DVDR MENU
DVDR INFO
Receiver : On
Setup

Anynet+ Menu

The **Anynet+** menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Option	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) **MENU**	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) **INFO**	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Recording : (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
(*recorder) **Reserve Recording**	Enables reserving a recording for the recorder. (This is only available for devices that support the recording reservation function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

- If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

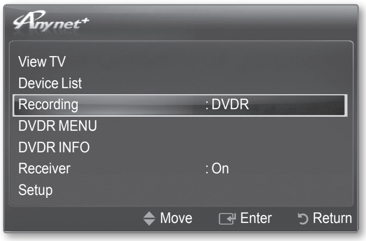
TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER**↵ buttons Colour buttons / **EXIT** button
	After switching to the device, while playing a file	◀◀(Backward search) / ▶▶(Forward search) / ■(Stop) / ▶(Play) / ❚❚(Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	**P** ⌃ / ⌄ button
Audio Device	When Receiver is activated	◢ + / − button 🔇 **MUTE** button

- The Anynet+ function only works when the active source on the TV remote control is set to TV.
- The ● button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. In this case, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- The ◀◀, ▶▶ operations may differ depending on the device.

Recording

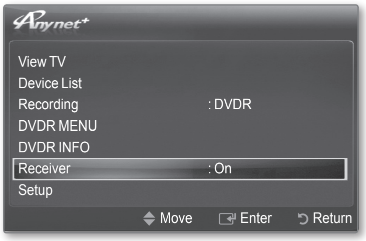
You can make a recording of a TV programme using a Samsung recorder.



1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Recording : (device_name)**, then press the **ENTER** button. Recording begins.
   - **When there is more than one recording device**
     When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER** button. Recording begins.
   - **When the recording device is not displayed**
     Select **Device List** and press the red button to search devices.
3. Press the **EXIT** button to exit.
   - Pressing the ⏺ button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
   - Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver

You can listen to sound through a receiver instead of the TV speaker.



1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Receiver**. Press the ◀ or ▶ button to select **On** or **Off**.
3. Press the **EXIT** button to exit.
   - If your receiver supports audio only, it may not appear in the device list.
   - The receiver will work when you have properly connected the Optical IN jack of the receiver to the Optical Out jack of the TV.
   - When the receiver (home theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theater receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theater receiver.
   - When using the Media Play feature, sound may not output properly through the receiver.
   - If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Speaker Select** may be set to **External Speaker** when you turn the TV on again.

Troubleshooting for Anynet+

Symptom	Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Connect only one receiver (home theatre). • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet+ exclusive remote control. • Anynet+ doesn't work in certain situations. (Searching channels, Operating **Media Play**, **Plug & Play**, etc.) • When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the TV and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the **Anynet+ Setup** menu. • Press the TV button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	• Select View **TV** in the Anynet+ menu. • Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. • (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message 'Connecting to Anynet+ device...' appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	• You cannot use the play function when **Plug & Play** is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI 1.3 cable is properly connected. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	• Connect the optical cable between TV and the receiver.

Content Library

Activating the Content Library

The Content Library enables you to view or play the built-in contents on the TV or stored on your USB device

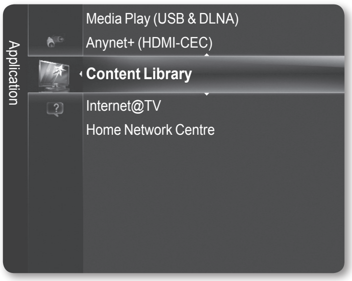
Using the Content Library Menu

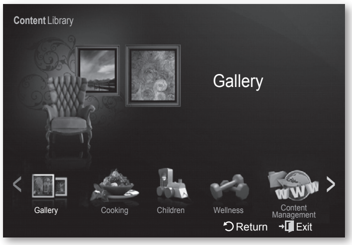
1 Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.

2 Press the ▲ or ▼ button to select **Content Library**, then press the **ENTER** button.

- The **Content Library** main menu is displayed.

3 Press the ◄ or ► button to select an icon (**Gallery, Cooking, Children, Wellness, Content Management**), then press the **ENTER** button.





Using the Remote Control Button in Content Library Menu

Button	Operations
▲/▼/◄/►	Move the cursor and select an item.
ENTER	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the **Content Library** main menu.
P ⌃ / ⌄	Stop **Content Library** mode and Returns to TV mode.
Colour button	Button that provide functions are described on the corresponding page.
◢ + / −	You can control the volume of the played content.

- Press the **CONTENT** button on the remote control to display the **Content Library** main menu.

- If you press the Volume or **MUTE** button, no OSD is displayed, but the function operates accordingly.

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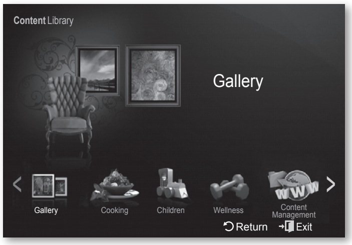
Using the Content Library

Option	Description
Gallery	This function plays a Slideshow with high resolution images and background music and produces various atmospheres. Using the Gallery function of the TV, you can change your home atmosphere. ■ Press **INFO** button to see the credit and detail information in English for the imagery (currently, the credit supports English only). ■ You can pause the slide show by pressing the **ENTER**↵ button during a slide show. ■ The copyrights of the **Gallery** contents and all issues related to them are reserved by Timespace / JoongAng M&B, Inc.
Cooking	You can view various recipes and then easily follow them step by step. Enjoy these contents which will give you great ideas for meals. ■ The recipes introduced in the **Cooking** contents on the Samsung TV are based on recipes published by Anness Publishing. ■ The copyrights of the **Cooking** contents and all issues related to them are reserved by Practical Pictures.
Children	This is educational and interactive content that children can watch repeatedly. Enjoy existing stories, songs and plays with the Boowa and Kwala characters. ■ The copyrights of the **Children** contents and issues related to them reserved by UpToTen.
Wellness	This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family.



Option	Description
Content Management	■ **My Contents** The use of contents is the same as in using the TV memory contents. Also, you can delete and play the each contents. ■ **USB** You can download the contents onto a USB memory device and play them on your TV. The contents on the external USB device are played directly. • **Content Library** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. (Both USB HDD and HUB are not supported.) • Playing a game using an external USB memory device will allow you to save your game (depending on the game). Take care as removing the USB memory device while saving data to the USB memory device may cause the data to be lost. • Downloading New Contents New content other than the built-in content will be provided via the Samsung.com website with or without charge. Check the UDN number before downloading a new content item. You have to enter the UDN number on the Samsung.com website to download a content item. **1.** Visit the www.samsung.com website. **2.** Select a content item in the Contents Download page. **3.** Download the contents onto the USB memory device. **4.** Go to Content Library main menu by pressing **CONTENT** button or choosing Content Library (**Menu** →**Application** →**Content Library**) **5.** Plug the USB memory into USB port on the side of the TV. **6.** You can see the content sub item which you downloaded. **7.** Select a content item and press the enter button. **8.** You can play the selected content item ■ **Setup** • **Screen Saver Run Time** → **10 min.** / **20 min.** / **40 min.** / **1 hour** Select to set the waiting time before the screen saver appears. • **Save UDN** (Unique Device Number) The 18-digit number on the screen is the product code. You can save the UDN to your USB memory.

Content Management
Cooking
Children
Wellness
Content Management
Gallery
Return
Exit

- An NTFS format USB storage device does not support saving UDN.
  We recommend using a FAT format USB storage device.

Internet@TV

You can use various internet services containing useful information and entertaining content

If you have some problems while using a widget service, please contact to content provider. In the widget, press the Green button and get information of contact or refer to help website for widget provider information.

- English may be only supported in widget service depending on region.
- This function may not be supported depending on your country.

Getting Started with Internet@TV

Internet@TV provides an integrated Internet and television experience powered by the Yahoo!® Widget Engine.
You can monitor financial stocks, share photos with friends and family, and track news and weather all through the Internet@TV service on your television.

- You may experience slow operation or hesitation when using this function due to network conditions.

When running Internet@TV for the first time, the basic settings proceed automatically.

- The first step is to set up your network. For more information on how to configure your network, refer to ‘Network Setup’.
- After your network is operational, the Internet@TV software guides you through a step-by-step setup wizard.

What is a Widget?

A TV Widget is a small web application that allows you to easily access your favourite site using the remote control. You can enjoy various types of information, such as the latest news, weather information, and stock information, etc. on your TV along with your friends or family members.

- Some widgets may not be supported depending on the regulations of the corresponding country.
- Some widgets will only support limited services depending on the regulations of the corresponding country.
- The colour buttons may work differently depending on the widget.
- The operation may not be smooth depending on the network condition.
- The Snippet is a symbol of Widget.

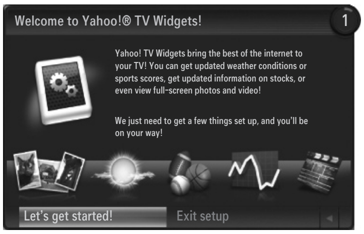
What is a Snippet?

A snippet shows a part of the Widget contents such as weather and stock information that the user wants to view.

- The snippets are automatically updated in real time.
- It may take a few seconds to load the snippet.

1. Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.
2. Press the ▲ or ▼ button to select **Internet@TV**, then press the **ENTER** button.
   - **Internet@TV** starts.
3. The **General Disclaimer** is displayed on the screen. Select **I accept** or **I do not accept**.
   - For more information on the **General Disclaimer**, refer to the ‘**Legal Notice**’.
4. The ‘welcome screen’ is the starting point of the **Internet@TV** guided setup.
   - If you select **Exit Setup**, this step is resumed when you press the **INTERNET@** button.
   - Select **Let’s get started!**
5. Choosing your location allows TV Widgets to use localized content.
   - Select your country from the list provided.
6. Accepting the Yahoo!® TV Widget Engine Privacy Policy is required to use Internet@TV.
   - Select **OK, I Accept.**
7. Accepting the Yahoo!® TV Widget System Terms of Service is required to use Internet@TV.
   - Select **OK, I Accept.**

- Press the **INTERNET@** button on the remote control to display the **Internet@TV** menu.



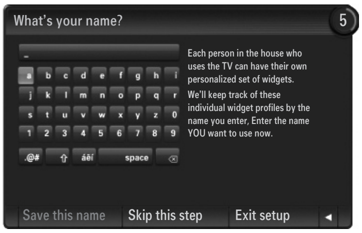
Welcome to Yahoo!® TV Widgets!

Yahoo! TV Widgets bring the best of the internet to your TV! You can get updated weather conditions or sports scores, get updated information on stocks, or even view full-screen photos and video!

We just need to get a few things set up, and you’ll be on your way!

8 Enter your name to setup your profile. Each profile has its own list of widgets. You can create a profile for each person who uses Internet@TV.

- Enter your name and select **Save this name**.
- For more information, refer to ‘Network Setup’.



Each person in the house who uses the TV can have their own personalized set of widgets.
We’ll keep track of these individual widget profiles by the name you enter, Enter the name YOU want to use now.

9 **Internet@TV** tests the network connection.

- If the test fails, configure your network again.
- For more information, refer to ‘Setting the Network’.

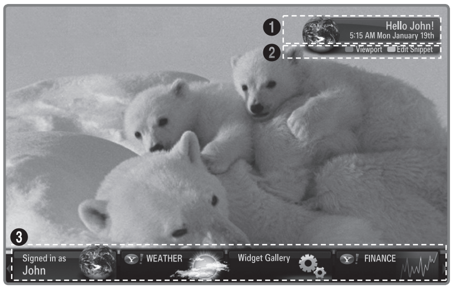
10 The guided setup is complete. A tutorial on how to use Internet@TV is next.

- Select **Continue** to view the tutorial.
- Select **Exit setup** to start using Internet@TV now.
- To run the tutorial again, select **Profile Widget** → **System Setting** → **Repeat Tutorial**.

11 Press the **INTERNET@** button on the remote control to display the **Internet@TV** user interface.

Screen Display

Dock mode

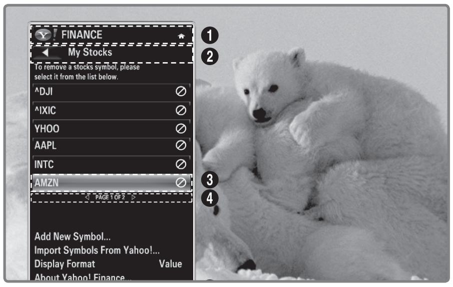


① A welcome banner is shown with your profile name in the top right corner.
  - This banner disappears after a short delay.

② The banner highlights two remote control shortcuts.
  - If you press the blue button (**Viewport**) on your remote control, the display is toggled between ‘Viewport mode’ and ‘Overlay mode’. In Viewport mode, the TV or video plays in a scaled-down area with graphics outside. In overlay mode, the graphics are displayed on top of the TV or video.
  - If you press the yellow button (**Edit Snippet**) on your remote control, a help window is displayed and the snippet with focus can be edited

③ Press the **INTERNET@** button on the remote control to begin.
  - The horizontal list at the bottom of your TV screen is called ‘the dock’.
  - The items in the list are called ‘snippets’.
  - A snippet is a shortcut which launches a TV Widget.
  - A TV Widget is an Internet application designed to run on your TV.
  - Move between snippets by pressing the ◄ or ► buttons on the remote control.
  - Focus is located in the left most region (highlighted in blue).
  - The dock slides snippets under that focal point.
  - Launch a TV Widget by pressing the **ENTER**↵ button on the remote control when its snippet is in focus.
  - When you add snippets, they form a stack which you can navigate by pressing the ▲ or ▼ buttons.
  - Two special TV Widgets appear in the dock: the **Profile Widget** and the **Gallery Widget**. These cannot be deleted.
  - The dock will slide off screen after a timeout period.

Sidebar mode



To remove a stocks symbol, please select it from the list below.

① Focus on a snippet and press the **ENTER**↵ button to launch the TV Widget sidebar. The TV Widget logo and Home(🏠) are at the top of the sidebar.

② Current menu is displayed under the TV Widget logo.
  - To return to a previous screen, select it and press the **ENTER**↵ button.
  - You can also press the **RETURN** button on the remote control.

③ Current selection is always highlighted in blue. The highlighted button has focus and is activated when you press the ENTERE button.

④ When there is a lot of data, a page control is used.
  - Current page and total pages are displayed.
  - Move between pages by pressing ◄ or ► buttons.

⑤ The bottom toolbar includes colour buttons that correspond to the red, green, yellow and blue buttons on the remote control.
  - **Red button**: Close the widget.
  - **Green button**: Manage your snippets.
  - **Yellow button**: Change the widget’s setting.
  - **Blue button**: Size video to fit, or make it full screen.
  - Some buttons may not be available depending on widget.

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Editing Snippets in the Dock

1 Edit a snippet by focusing on it in the dock and pressing the yellow button.

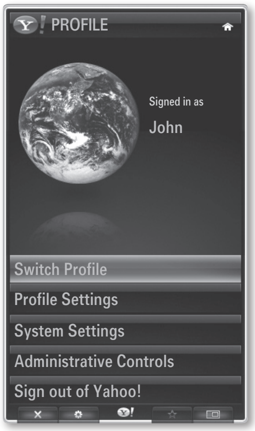
2 The snippet moves to the Second position and its tile slides up to show the following help text:

- **Delete** (Red button): Remove this TV Widget.
  Deleted widgets can be re-installed using the **Widget Gallery**.
- **Move** (Blue button): Re-order the snippet. Press the ◄ or ► button to scroll. Press the yellow button to drop into the new position.
- **Done** (Yellow button): Exit the **Edit Snippet** menu.

Using the Profile Widget

The Profile Widget configures your user profile.
You can set up multiple profiles, and each profile maintains its own list of widgets.
The **Switch Profile** menu allows you to switch to a different user profile.

- At least two profiles must be registered. If you want to add a profile, refer to ‘**Administrative Controls**’.

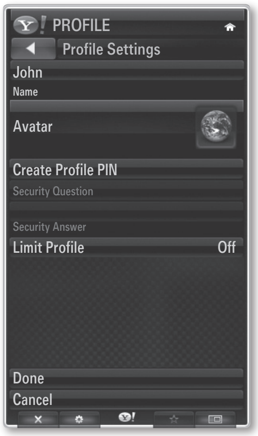

PROFILE
Signed in as
John
Switch Profile
Profile Settings
System Settings
Administrative Controls
Sign out of Yahoo!

The Profile Settings menu allows you to customize and protect your profile.

- User profiles can be customized with a unique **Name** and an **Avatar** (a picture used to represent your profile).
- Your profile’s **Name** and **Avatar** are displayed in the profile snippet in the dock.
- Profiles can be protected by **Create Profile PIN**.
  When setting the PIN for the first time, you can set a Security Question.

The Profile Settings menu can limit access to widgets.

- If you forget your **Profile PIN** you can answer a **Security Question** that is associated with your profile.
- A profile that has the Limit Profile indicator turned on will not allow new widgets to be installed.
- • The Owner PIN must be set to use this function. To set the Owner PIN, refer to ‘**Administrative Controls**’.

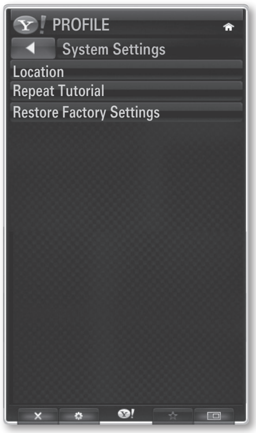

PROFILE
Profile Settings
Avatar
Create Profile PIN
Security Question
Security Answer
Done
Cancel

Name: John

Limit Profile: Off

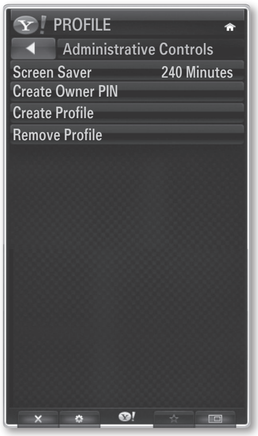
The System Settings menu allows you to:

- Change your **Location** and set your **Zip Code** (US only) to tailor the content to your region.
- **Repeat the Tutorial** that was shown during guided setup.
- **Restore Factory Settings** to delete all widget configurations and information.


PROFILE
System Settings
Location
Repeat Tutorial
Restore Factory Settings

In the Administrative Controls menu you can:

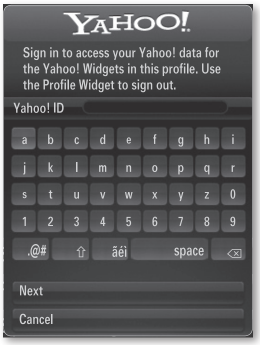
- Set the **Screen Saver** timeout to avoid screen burn in.
- Create **Owner PIN** and set a **Security Question** to control other profiles.
- Create a new Profile which can be configured with a different set of widgets.
- Delete an existing profile.


PROFILE
Administrative Controls
Create Owner PIN
Create Profile
Remove Profile

Screen Saver: 240 Minutes

From the Profile Widget you can Sign in to Yahoo!® using your Yahoo! ID.

- If you have a Yahoo! ID, you can access your personalized content using the Yahoo! TV Widgets.
- All Yahoo! TV Widgets that are installed are automatically signed-in with your profile's Yahoo! ID.
- If you have no Yahoo! account, visit www.yahoo.com and create an account.
- You may fail to log in with an ID created on the Yahoo website in a country that does not support Internet@TV.



Sign in to access your Yahoo! data for the Yahoo! Widgets in this profile. Use the Profile Widget to sign out.

YAHOO!
Yahoo! ID
a b c d e f g h i
j k l m n o p q r
s t u v w x y z 0
1 2 3 4 5 6 7 8 9
.@#
âêì
space
Next
Cancel

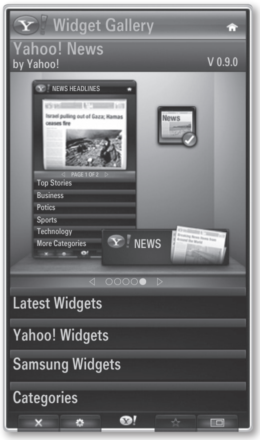
About Profile widget

- Press the Green button.
- You can view a brief description of the **Profile Widget**, **Copyright Policy**, **Terms of Service**, and **Privacy Policy**.

Using the Yahoo!® Widget Gallery

Use the Yahoo!® Widget Gallery to add more widgets to your TV.
View available TV Widgets in the following categories:

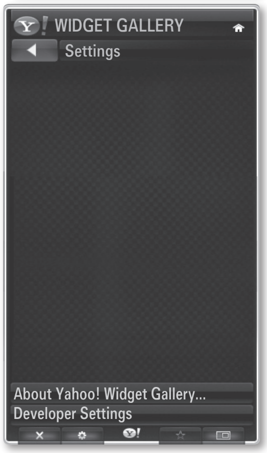
- **Latest Widgets**: Displays recently updated widgets.
- **Yahoo!® Widgets**: Displays widgets provided by Yahoo!®.
- **Samsung Widgets**: Displays widgets provided by Samsung.
- **More Categories**: Displays all widgets by category.
- To install a widget, navigate to the detail screen and select **Add Widget to My Profile** and press the **ENTER**↵ button. The widget is installed and becomes available in the dock.



Widget Gallery
Yahoo! News
by Yahoo!
V 0.9.0
NEWS HEADLINES
News
PAGE 1 OF 2
Top Stories
Business
Potics
Sports
Technology
More Categories
NEWS
Latest Widgets
Yahoo! Widgets
Samsung Widgets
Categories

Widget Gallery Settings

Press the Green button.



WIDGET GALLERY
Settings
About Yahoo! Widget Gallery...
Developer Settings

About Yahoo! Widget Gallery...

You can view brief information for the **Widget Gallery**, **Copyright Policy**, **Terms of Service**, and **Privacy Policy**.

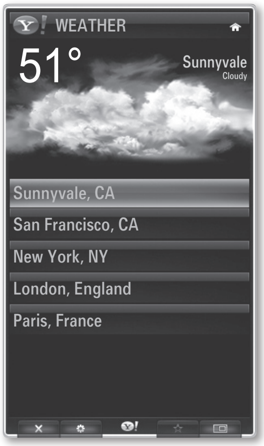
In the Developer Settings menu You can make your own widget.

For more information on creating your own widget, visit our developer site at http://connectedtv.yahoo.com/

Using the Yahoo!® Weather Widget

The Yahoo!® Weather Widget provides updates on your local and favorite weather locations. This content dynamically changes with weather conditions.

- Press the green button on the remote control to display the Yahoo!® Weather Widget **Settings** menu.
- From the **Settings** menu you can add or remove a city for which you want to view weather information.



From the Settings menu:

- **Add New City** by entering the name of the city. Once the search results are displayed, select the city you want and press the **ENTER↵** button.
- **Delete City** by selecting the city you want to delete from the city list. Press the **ENTER↵** button and confirm the deletion.
- **Changing the Temperature Indication Mode**
  You can change the temperature indication mode to **Imperial** or **Metric**. For example, **Imperial** will show temperatures in Fahrenheit and **Metric** in Celsius.

Create a Snippet for a Favorite City

- Select the city from the Yahoo!® Weather Widget's home page and view the detailed weather information.
- Press the Yellow button.
- Select the **Add Snippet** menu and press **ENTER↵** to add the city as a snippet.

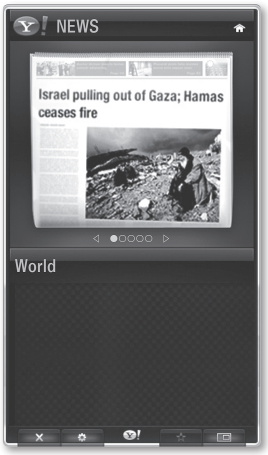
Delete a Snippet for a City

- Launch the snippet.
- Press the Yellow button.
- Select the **Delete Snippet** menu and press **ENTER↵** to remove the snippet.

Using the Yahoo!® News Widget

The Yahoo!® **News** Widget provides the latest headline news for business, entertainment, politics, sports, top stories, and many other categories.

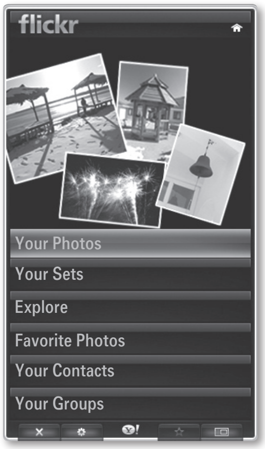
Select a category, select a headline within the category, and view a dynamically updated news summary.



Using the Yahoo!® Flickr Widget

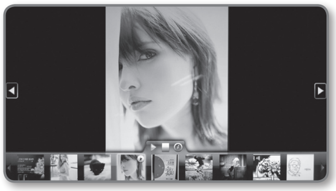
The **Flickr** Widget can provide you access to your favorite photos from friends and family while watching TV. Share your photos with your family on your big screen TV through a slideshow.

- Personalize the **Flickr** Widget by logging in with your Yahoo! ID.
- For detailed procedures on log in, refer to the 'Using the Profile Widget' instructions.
- For more information on **Flickr**, visit http://www.flickr.com.
- Your Photos shows photos you have registered with **Flickr** website.



To view Flickr photos in a slideshow:

- Select a thumbnail of a photo and press the **ENTER**↵ button to view the photo's details.
- Select Start **Slideshow** and press the **ENTER**↵ button.



To control the slideshow display:

- Press the **ENTER**↵ button during a slideshow.
- The thumbnails of photos are displayed on the bottom of the screen.
  - When the slideshow control is displayed, you can Pause, Play and Stop the slideshow.
  - If you select the menu and press **ENTER**↵, you can view information for the selected photo.
- The **Your Sets** menu allows you to view photos you have classified in Flickr.
- The **Explore** menu allows you to explore photos featured by the Flickr website. You can view the photos updated daily.
- The **Mark as Favorite** or **Remove From Favorite** menu moves photos to your Favorite Photos set or removes photos from it.
- The **Favorite Photos** menu allows you to see the photos you have classified as favorites.
- The **Your Contacts** menu allows you to see updates from family and friends.

The Your Groups menu allows you to select your favorite groups from the Flickr website to share and enjoy photos with the Flickr community of users.

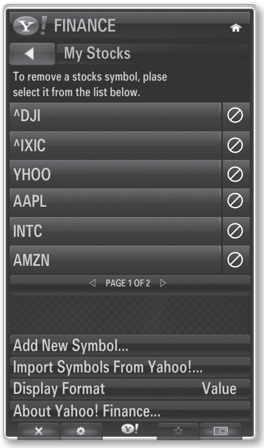
To configure the Yahoo!® Flickr Widget Settings press the Green button on the remote control.

- The **Time Per Slide** menu controls the speed of the slideshow.
- The **Repeat** menu will restart the slideshow at the beginning after the last photo is shown.

Using the Yahoo!® Finance Widget

View stock information and the latest stock news with the Yahoo!® Finance Widget.
Press the green button to set up your stocks.
Use the **Add New Symbol** menu to enter the name of a new stock.

- Select the stock you want to add from the search results and select the Add Symbol menu and press the **ENTER**⏎ button.
  - The selected stock is added to the **My Stocks** list.
- Use the **Import Symbols From Yahoo!®** menu to retrieve your Yahoo!® Finance portfolio.
  - The **Merge Symbols** menu merges the symbols in the Yahoo!® Finance Widget with the symbols from your portfolio.
  - The **Replace Symbols** menu deletes the symbols in the Yahoo!® Finance Widget and replaces them with the symbols from your portfolio.
- Use the **Display Format** menu to change the stock-price fluctuation transition to **Value** or **Percentage**.
- Create a snippet for a favorite stock.
  - Select the stock symbol from the Yahoo!® Finance Widget's home page and view the detailed finance information.
  - Press the Yellow button.
  - Select the **Add Snippet** menu and press **ENTER**⏎ to add the stock as a snippet.
- **Delete** a snippet
  - Launch the snippet from the dock
  - Press the yellow button.
  - Select the **Delete Snippet** menu and press **ENTER**⏎ to remove the snippet.



To remove a stocks symbol, plase select it from the list below.

Troubleshooting for Internet@TV

Problem	Possible Solution
Some widget services do not work.	Check with that service provider. In the widget, press the green button and get contact information or refer to help website for widget service provider information. Refer to Help website page.
Some widget contents only have English. How can I change the language?	Widget content language may be different from widget user interface language. It depends on service provider.
After factory reset, Yahoo Widget service doesn't work and warning message is displayed.	After factory reset, turn off and on your TV. Then restart Internet@TV.
At the Flickr widget, I logged in my account. But, I can't view my picture.	Visit Yahoo Web site, and activate your Flickr account at your Yahoo! ID.
At the Profile widget, I did change location, but the previous setting still remains.	Turn off and on your TV. Then restart Internet@TV. Now, you can enjoy widget services supported in changed location.

Help Website

Country	Website
Austria	www.samsung.com → Produkte → Fernseher → medi@2.0 → Internet@TV
Belgium	www.samsung.com → Producten → televisies → medi@2.0 → Internet@TV
	www.samsung.com → Produits → téléviseurs → medi@2.0 → Internet@TV
Czech	www.samsung.com → Produkty → televizory → medi@2.0 → Internet@TV
Denmark	www.samsung.com → Produkter → stue & soveværelse → medi@2.0 → Internet@TV
Finland	www.samsung.com → Tuotteet → kodinelektroniikka → medi@2.0 → Internet@TV
France	www.samsung.com → Produits → télévisions → medi@2.0 → Internet@TV
Germany	www.samsung.com → Privatkunden → Fernseher → medi@2.0 → Internet@TV
Greece	www.samsung.com → Προϊόντα → τηλεοράσεις → medi@2.0 → Internet@TV
Hungary	www.samsung.com → Termékek → televíziók → medi@2.0 → Internet@TV
Ireland	www.samsung.com → Products → Television → medi@2.0 → Internet@TV
Italy	www.samsung.com → Prodotti → TV → medi@2.0 → Internet@TV
Netherlands	www.samsung.com → Producten → televisies → medi@2.0 → Internet@TV
Norway	www.samsung.com → Produkter → hverdagsrom & soverom → medi@2.0 → Internet@TV
Poland	www.samsung.com → Produkty → telewizory → medi@2.0 → Internet@TV
Portugal	www.samsung.com → Produtos para Consumidores → televisores → medi@2.0 → Internet@TV
Slovakia	www.samsung.com → Produkty → televízory → medi@2.0 → Internet@TV
Spain	www.samsung.com → Productos → televisores → medi@2.0 → Internet@TV
Sweden	www.samsung.com → Produkter → vardagsrum & sovrum → medi@2.0 → Internet@TV
Switzerland	www.samsung.com → Produits → télévisions → medi@2.0 → Internet@TV
	www.samsung.com → Produkte → Fernseher → medi@2.0 → Internet@TV
United Kingdom	www.samsung.com → Products → Television → medi@2.0 → Internet@TV
Turkey	www.samsung.com → Tüketici Ürünleri → televizyon → medi@2.0 → Internet@TV
Estonia	www.samsung.com → Klientidele → Televiisorid → medi@2.0 → Internet@TV
Latvia	www.samsung.com → Klientiem → Televizori → medi@2.0 → Internet@TV
Lithuania	www.samsung.com → Namams → Televizoriai → medi@2.0 → Internet@TV
Russia	www.samsung.com → Продукты → Телевизоры → medi@2.0 → Internet@TV
Ukraine	www.samsung.com → Потребительские продукты → телевизоры → medi@2.0 → Internet@TV

- Approaching step may be changed later on.
- It can be different links for special countries.

Home Network Centre

About the Home Network Centre

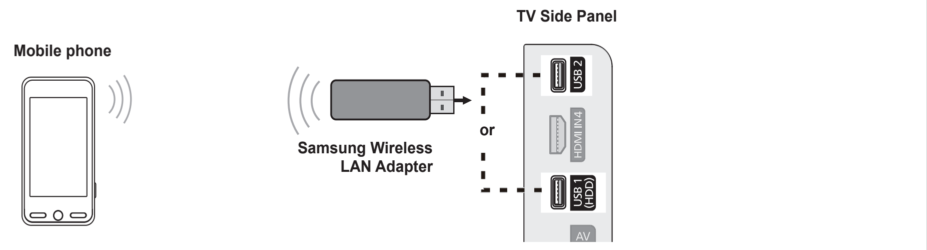
The **Home Network Centre** connects the TV and mobile phones through a network. You can view call arrivals, text message contents, and schedules set on the mobile phone on the TV using the **Home Network Centre**. In addition, you can play the media contents saved on the mobile phones such as videos, photos and music by controlling them onto the TV via the network.

- If the device supports **DLNA DMC (Digital Media Controller)** function, Home Network Centre function is available.
- This function is for compatibility with Samsung mobile phone which will be released later on. For more information, visit www.samsung.com or contact Samsung call center. Other models will be added in the future.
  The mobile device may need additional software installation. For details, refer to each user's guide.

Connecting to the Home Network Centre

For more information about the network settings, refer to 'Network Setup'.

Connecting to a Wi-Fi Ad-hoc Network

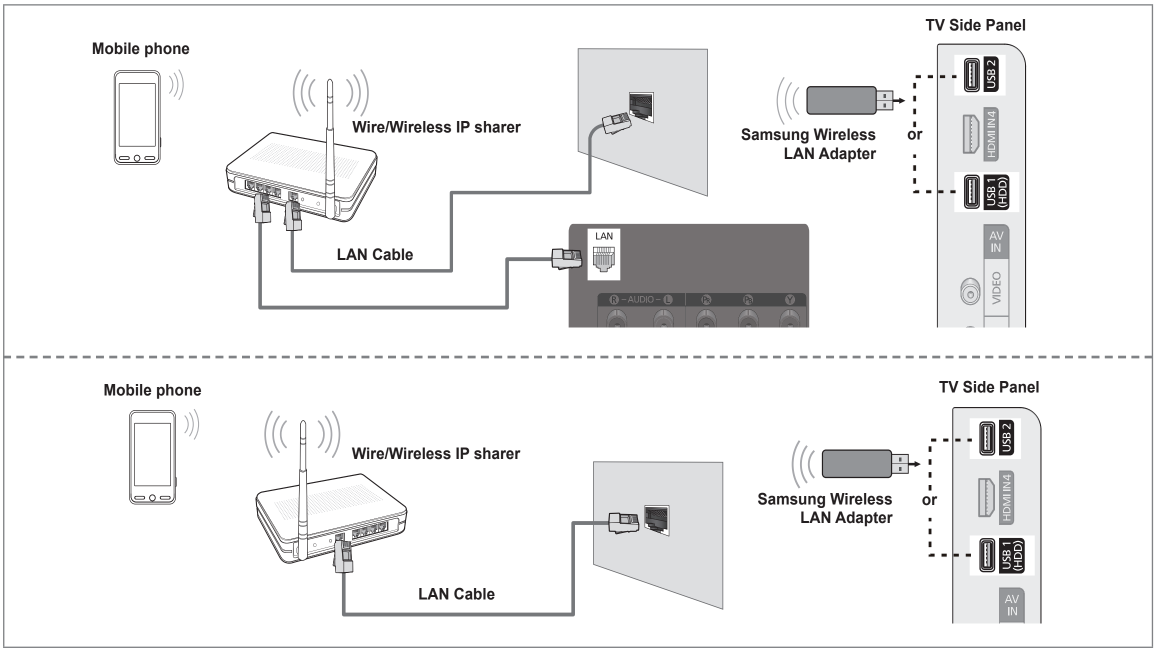


1 Connect the 'Samsung Wireless LAN Adapter' to the USB1(HDD) or USB2 port of the TV.

2 For more information on how to configure Ad-hoc network, refer to 'Setting the Network'.
- For information on configuring the mobile phone's network settings, refer to the mobile phone manual.

3 Set up the IP address, SSID and password for the mobile phone in the Ad-hoc Settings of the mobile phone using the Network Name (SSID) and Security Key (password) displayed on the TV.

Connecting through a Wire / Wireless IP Sharer

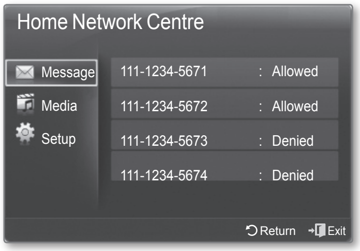

Mobile phone
Wire/Wireless IP sharer
LAN Cable
LAN
R – AUDIO – L
Pr
Pb
Y
Samsung Wireless LAN Adapter
or
TV Side Panel
USB 2
HDMI IN4
USB 1 (HDD)
AV IN
VIDEO
Mobile phone
Wire/Wireless IP sharer
LAN Cable
Samsung Wireless LAN Adapter
or
TV Side Panel
USB 2
HDMI IN4
USB 1 (HDD)
AV IN

Connect the LAN port of the TV and the Wire/Wireless IP sharer using the LAN cable or connect the USB1(HDD) or USB2 port of the TV and the ‘Samsung Wireless LAN Adapter’

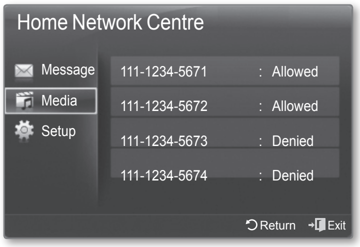
- For the procedures to set up the wire/wireless sharer and the mobile phone, refer to the manual of the corresponding device.

Setting Up the Home Network Centre

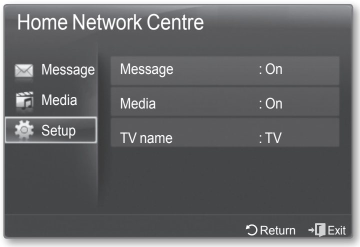
Option	Description
Message	Shows a list of mobile phones which have been set up with this TV to use the message function (the call arrivals, text message contents and schedules set on the mobile phone). ■ **Allowed** Allows the mobile phone. ■ **Denied** Blocks the mobile phone. ■ **Delete** Deletes the mobile phone from the list. • This function just deletes the name from the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.
Media	Shows a list of mobile phones which is available to control media contents (videos, photos, music) from the phone. – Besides mobile phone, other mobile devices that support DLNA DMC are available ■ **Allowed** Allows the mobile phone. ■ **Denied** Blocks the mobile phone. ■ **Delete** Deletes the mobile phone from the list. • This function just deletes the corresponding name on the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.
Setup	■ **Message** You can determine whether to use the message function (the call arrivals, text message contents, and schedules set on the mobile phone). ■ **Media** You can select whether to use the media function that plays the contents (videos, photos, music) from the mobile phone. ■ **TV name** You can set the TV name so as to find it easily on the mobile device. • If you selects User Input, you can type the TV name by OSK(On Screen Keyboard).



111-1234-5671 : Allowed
111-1234-5672 : Allowed
111-1234-5673 : Denied
111-1234-5674 : Denied



111-1234-5671 : Allowed
111-1234-5672 : Allowed
111-1234-5673 : Denied
111-1234-5674 : Denied

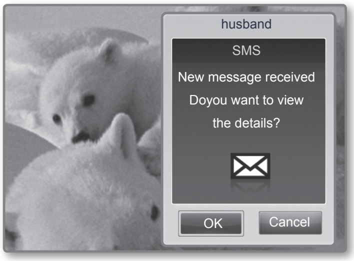


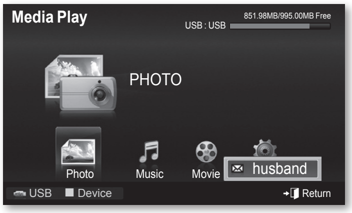
Message : On
Media : On
TV name : TV

Using the Message Function

Using this function, you can view the call arrivals, text message contents and schedules set on the mobile phone through the alarm window while watching TV.

- To disable this **Message** alarm window, set **Message** to **Off** in **Setup** of the **Home Network Centre**.
- The alarm window appears for 20 seconds. If no key is pressed or if **Cancel** is selected, it appears up to three times at 5 minute intervals.
- If OK is selected, or if OK is not selected while the message is displayed three times, the message will be deleted. The message is not deleted from the mobile phone.
- The simple alarm window can be displayed, while using some applications such as Media Play, Contents Library, etc. In this case, to view the contents of the message, switch to TV viewing mode.
- When the message of an unknown mobile phone is displayed, select the mobile phone in the **Message** item of the **Home Network Centre** and select **Denied** to block the phone.

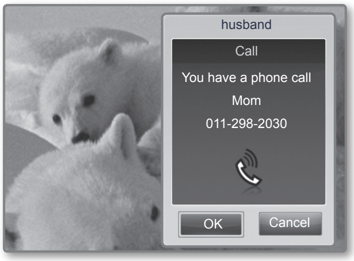

husband
SMS
New message received
Doyou want to view
the details?



Message View

If a new text message (SMS) arrives while you are watching TV, the alarm window appears. If you click the **OK** button, the contents of the message are displayed.

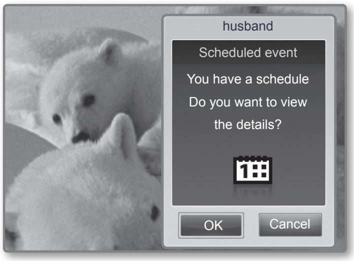
- If you select the **OK** button, the contents of the message are displayed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
- You can configure the viewing settings for the text message (SMS) contents on the mobile phone. For the procedures, refer to the mobile phone manual.
- Some special characters may be displayed as blank or broken characters.


husband
Call
You have a phone call
Mom
011-298-2030

Call Arrival Alarm

If a call arrives while you are watching TV, the alarm window appears.

- If you select the **OK** button, the call arrival alarm is confirmed and the alarm window is closed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.


husband
Scheduled event
You have a schedule
Do you want to view
the details?

Schedule Alarm

While you are watching TV, the alarm window appears to display the registered schedule.

- If you select the **OK** button, you can view the contents of the schedule registered on the mobile phone.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
- You can configure the viewing settings for the schedule contents on the mobile phone. For the procedures, refer to the mobile phone manual.
- Some special characters may be displayed as blank or broken characters.

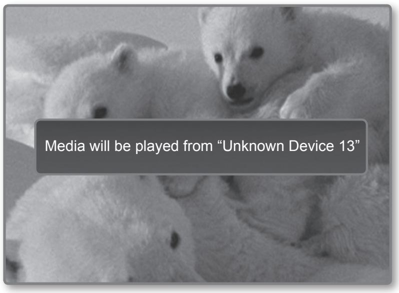
Using the Media Function

An alarm window appears informing the user that the media contents (videos, photos, music) sent from the mobile phone will be displayed on the TV.

The contents are played automatically 3 seconds after the alarm window appears.

If you press the **RETURN** or **EXIT** button when the alarm window appears, the **Media Contents** are not played.

- To turn off the media contents transmission from the mobile phone, set **Media** to **Off** in **Setup** of the **Home Network Centre**.
- The contents may not be played on the TV depending on their resolution and format.



Media will be played from “Unknown Device 13”

Media Play Control Buttons

Button	Operations
◀/▶	Move the cursor and select an item. While playing a movie file: Skip forwards or backwards through the movie file.
ENTER↵	Pressing the **ENTER↵** button during play pauses the play. Pressing the **ENTER↵** button during pause resumes the play.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
INFO	Show file information.
EXIT	Stop **Media Play** mode and Returns to TV mode.

- The **ENTER↵** and ◀/▶ buttons may not work depending on the type of media content.
- Using the mobile device, you can control playing media. For details, refer to each user’s guide.

Other Information

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the Teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

- For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

❶ ▢ **(exit)**
Exit from the teletext display.

❷ ≡i **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.

❸ ≡◇ **(store)**
Used to store the teletext pages.
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❹ ≡⇕ **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ ≡/◿ **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❻ ≡? **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❼ ≡● **(sub-page)**
Used to display the available sub-page.

❽ ≡↑ **(page up)**
Used to display the next teletext page.

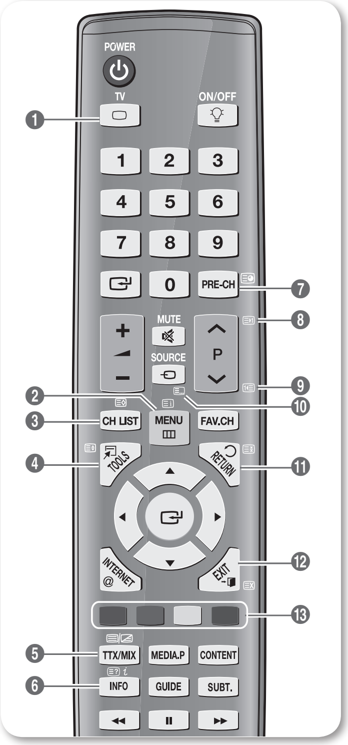
❾ ↓≡ **(page down)**
Used to display the previous teletext page.

❿ ≡… **(mode)**
Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the ≡◇(store) button.

⓫ ≡⧗ **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓬ ≡X **(cancel)**
Used to display the broadcast when searching for a page.

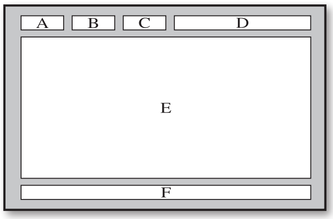
⓭ **Colour buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.



- You can change teletext pages by pressing the numeric buttons on the remote control.

The Teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.



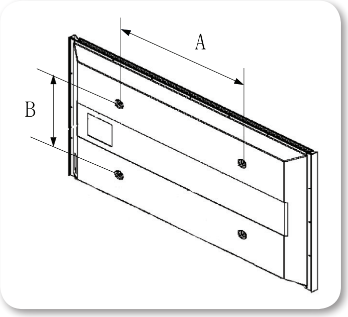
- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)

- Press the **TV** button to exit from the teletext display.

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19" ~22"	100 * 100	M4	4
	23"~29"	200 * 100		
	30"~40"	200 * 200	M6	
	46"~55"	400 * 400	M8	
	57"~70"	800 * 400		
	80" ~	1400 * 800		
PDP-TV	42"~ 50"	400 * 400	M8	4
	58"~ 63"	600 * 400		
	70" ~	800 * 400		
	80" ~	1400 * 800		

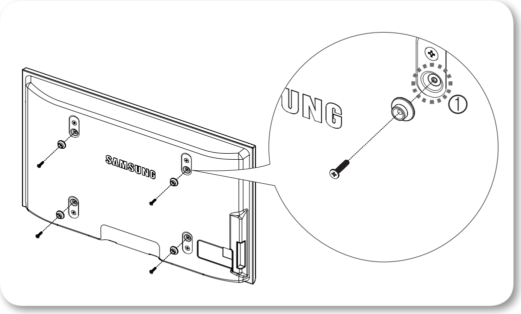


- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57” and 63” models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.

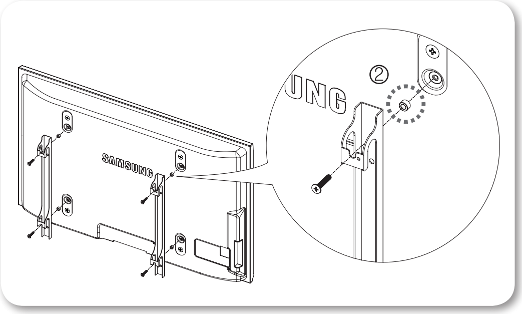
⚠ Do not install your Wall Mount Kit while your TV is turned on.
It may result in personal injury due to electric shock.

Preparing before installing Wall- Mount on the wall

Case A. Installing SAMSUNG Wall-Mount



Case B. Installing other company's Wall-Mount



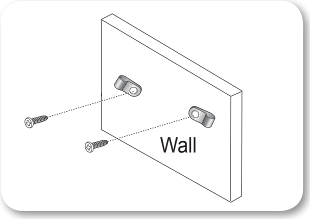
1. Install Wall Mount with the torque range of 15kgf·cm or less. Make sure that parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder–Ring [②] for installing other company's Wall-Mount on Samsung TV. (Case B)
   - screw down the hole [①] when installing wall-mount on the wall.

Securing the TV to the Wall

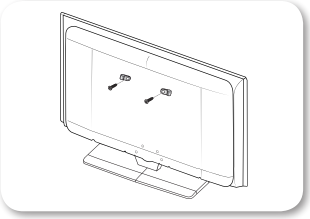
Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling

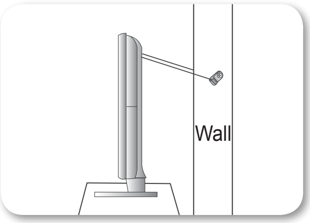
1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.



2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product.



3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.



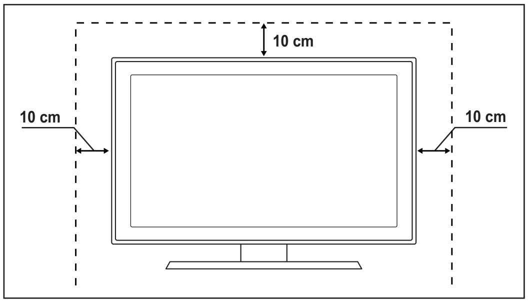
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections,contact a professional installer.

Securing the Installation Space

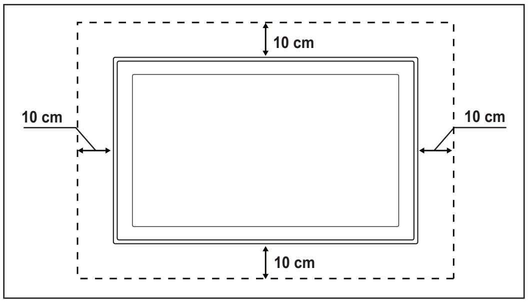
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product. Install the product so the required distances shown in the figure are kept.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- The appearance may differ depending on the product.

- When installing the product with a stand



- When installing the product with a wall-mount



Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the button on your set. • Check the picture contrast and brightness settings. • Check the volume. • Check if **Speaker Select** is set to **External Speaker**.
Normal picture but no sound	• Check the volume. • Check whether the 🔇 **MUTE** button has been pressed on the remote control.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the television, then move it further away. • Plug the television into a different main socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. • This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check that the + and – ends of the batteries are inserted correctly. • Check that the batteries are drained.
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • Move the computer's mouse or press any key on the keyboard. • On your equipment check (STB, DVD, etc) ; Power, Signal Cable. • The TV is using its power management system. • Press the Source button on the panel or remote control. • Turn the TV off and on.
The damaged picture appears in the corner of the screen.	• If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	• This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	**PS50B650**	**PS58B680**	**PS63B680**
Screen Size (Diagonal)	50 inch	58 inch	63 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10 W x 2	15 W x 2	15 W x 2
Dimension (WxHxD)			
Body	1240 x 756 x 74 mm	1401 x 848 x 74 mm	1531 x 932 x 74 mm
With stand	1240 x 817 x 290 mm	1401 x 917 x 335 mm	1531 x 957 x 390 mm
Weight			
Body	33 kg	39 kg	53 kg
With stand	38 kg	46 kg	61 kg
Environmental Considerations			
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)		
Operating Humidity	10% to 80%, non-condensing		
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)		
Storage Humidity	5% to 95%, non-condensing		

- This device is a Class B digital apparatus.
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- For the power supply and Power Consumption, refer to the label attached to the product.

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Original SSLeay License

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Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.
  This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures,high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class l Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.

WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE
The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitabl y approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE - NEUTRAL BROWN - LIVE
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:
DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

Warranty Card

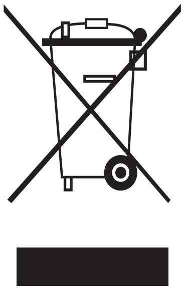
UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0870 SAMSUNG (7267864)(UK & Northern Ireland)
Tel: 0818 717 100 (EIRE Only)
Fax: +44 0845 650 8080
Web : www.samsung.com

WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung’s obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres.
   No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured.



Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.